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### TECHNICAL REPORT

# STUDY AND INVESTIGATION OF COMPUTER ALGORITHMS FOR THE SOLUTION OF THE SHALLOW-FLUID EQUATIONS AS A MEANS OF COMPUTING TERRAIN INFLUENCES ON WIND FIELDS

APPENDICES A, B, C AND D

Ву

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H. E. CRAMER COMPANY, INC. P. O. Box 9249 Salt Lake City, Utah 84109

### ABSTRACT

This report describes the development and implementation of a computer algorithm, based on the shallow-fluid equations of oceanography, for calculating the wind field above complex terrain. The algorithm contains a two-dimensional shallow-fluid model in the form of a fully-documented computer program compatible with a UNIVAC 1108 machine. To guide the selection of initialization procedures and the optimum finite-differencing scheme applicable to numerical solutions of the algorithm, a detailed study was made of the analytical solution of the shallow-fluid equations for one-dimensional flows over an isolated ridge. The selected optimum finite-differencing procedure is a Lax-Wendroff scheme using nine grid points and two time levels in combination with a nine-point low-pass filter.

A comprehensive computational program, using an isolated symmetrical mountain, was carried out to provide guidelines as to the nature of two-dimensional solutions of the shallow-fluid equations for the wide variety of initial conditions encountered in the atmosphere. The model was initialized by impulsively accelerating the fluid to a constant velocity everywhere and, after a while, the flow near the mountain approaches a steady state. The results showed that the flow patterns could be divided into four major categories: Subcritical without hydraulic jumps; supercritical without upstream waves; critical with hydraulic jumps and wind-direction reversals; critical with hydraulic jumps but without wind-direction reversals. For the subcritical and supercritical flows, initialization procedures do not appear to pose a problem. For the critical flows, care must be taken in the selection of initialization procedures.

Comparisons of calculated wind field patterns with recent detailed observations of wind circulations above complex terrain show excellent qualitative agreement in the limited cases available for analysis. Additionally, the computer algorithm for the two-dimensional model, when applied to the terrain at White > Sands Missile Range, gave results that were consistent with limited observations available for two example situations.

The computer program containing the two-dimensional shallow-fluid model is written in FORTRAN V language and is fully documented in the four appendices to the report. The documentation includes user's instructions, a complete program listing, detailed flow diagrams, and a completely worked example problem.

### FOREWORD

This report has been prepared by the H. E. Cramer Company, Inc. in partial fulfillment of the requirements under Contract No. DAAD07-72-C-0309 with the White Sands Missile Range. The assistance of Dr. Joseph Shinn and Mr. Ernie Stenmark of the Atmospheric Sciences Laboratory, White Sands Missile Range is gratefully acknowledged. Dr. Shinn provided excellent liaison with ASL personnel, while Mr. Stenmark provided technical assistance in adapting the computer program to ASL facilities. The authors wish to acknowledge the considerable benefit derived from numerous discussions of the mathematical properties of the model with their colleague Dr. Brian Lau who is also an Assistant Professor of Mathematics at the University of Utah, Salt Lake City.



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### APPENDIX A

## USER INSTRUCTIONS FOR THE ASL/WSMR WIND FIELD TERRAIN ADJUSTMENT MODEL COMPUTER PROGRAM

The ASL/WSMR Wind Field Terrain Adjustment Program is designed to adjust the wind speed and direction field to the terrain heights at each coordinate intersection over a reference grid system.

The computer program is written in the FORTRAN V language and is designed for use on a UNIVAC 1108 computer. The program requires 31390<sub>10</sub> words of core storage including system and FORTRAN library routines. The computer program has the optional capability of printing the adjusted wind speed and direction fields and surface layer heights at specified time intervals. In addition, the wind fields and layer height information may be written on magnetic tape for subsequent graphical processing. The program uses FORTRAN Logical Tape 5 (Card Reader) and Logical Tape 6 (Printer) for standard input/output. The program also uses Logical Tape 1 as a file for optional output. The computer program construction is described in Section A. 1 and user instructions are given in Sections A. 2, A. 3 and A. 4. An example problem is given in Section A. 6 and a program listing is shown in Appendix B.

### A. 1 COMPUTER PROGRAM CONSTRUCT

The Wind Field Terrain Adjustment Model Program consists of six subroutines including the main driver program MODEL. Program MODEL determines
the number of problem cases to be executed in a single computer run and determines
the core allocation of variable program arrays for each problem. The computer
program uses object time-dimensioning techniques to accommodate different grid
system sizes. The grid system is assumed to be the first quadrant of a Cartesian
coordinate system with the positive y-axis oriented north and the positive x-axis

oriented east. The total size of the grid system matrix is limited by the equation:

### $N \geq 7*IDIM*JDIM+2*IDIM+2*JDIM$

The parameter IDIM is the maximum size of the x dimension and JDIM is the maximum size of the y dimension of the grid system matrix. The parameter N is the DIMENSION'd size of a large array Q in MODEL containing all program variable arrays that depend on the grid system matrix. The parameter N is currently set to 18000, but it can be set to any value in order to accommodate the program to computer core storage limitations.

The first subroutine, Subroutine JACK, is the main calculation routine. This subroutine inputs the model data, determines the program options desired, sets the initial wind field conditions and then enters a time loop through the shallow-water model equations discussed in Section 4 of the main body of the report. The computer program uses a second-order central space and forward time differencing scheme to evaluate Equations (4-14) through (4-21). The wind speed and direction or the u and v components of the wind speed, as well as the surface layer heights, are printed and/or written to tape at selected points in the time loop. When the time loop is completed, the program stops or loops to the next problem in sequence.

The remaining subroutines are utility support programs for Subroutine JACK. Subroutine MISC determines the area of uniform grid spacing within the grid system and returns the indices of this area for tape output. Subroutine UVDIR converts the u and v components of the wind speed to wind speed and direction for printing. Subroutine MOUTNR inputs the terrain data into a specified area of the grid system. The program fills any remaining area of the grid with height values calculated from the minimum height and the height at the edge of the input area as a function of distance. Subroutine OUTPT is the tape output routine and uses the UNIVAC NTRAN routines.

A logic diagram of the computer program is given in Section A. 5 and detailed flow charts of the computer program are given in Appendix D.

#### A. 2 PROGRAM INPUT PARAMETERS

The data input parameters required for the computer program are listed in Table A-1. The information categories in the table are defined as follows:

**CARD GROUP** SEQUENCE

NUMBER

- Order of input of the three card groups.

NAMELIST

- Name of the FORTRAN NAMELIST list to which the input

parameters belong (Card Group 2 only).

FORTRAN

- FORTRAN symbolic notation defining the program input.

MODEL

- Mathematical notation corresponding to the FORTRAN

notation.

UNITS

- Dimensional units of the input parameters.

LIMITS

- Numerical limits on input parameters.

VALUE

- Default value substituted if the present value is zero (Card

Group 2 only).

ARRAY SIZE

- Maximum number of core locations reserved for the parameter.

CARD COLUMNS - Data card punch field.

FORMAT

- FORTRAN input format.

TABLE A-1
PROGRAM INPUT PARAMETERS

Card Group Sequence Number	Namelist	FORTRAN	Model	Units	Limite	Ø Value	Array Size (words)	Card Columns	Format
-	W/A	QN	N/A	N/A	N/A	N/A	1	1-2	21
		МЪ	N/A	N/A	N/A	N/A	Ħ	1-2	23
		MIQI	N/A	N/A	≥ 80 ⊕	N/A	-	3-5	22
		JDIM	N/A	N/A	≥ 80 ⊕	N/A	H	8-9	13
8	QLST1	77	N/A	N/A	MIQI ≶	4 (4)	1	@	4/N
		JL	N/A	N/A	≥ JDIM	JDIM		) @	N/A
		×	×	Meters	۱۸ 0.0	•	80	0	N/A
		¥	'n	Meters	١٨ ٥٠٥	<b>(4)</b>	80	0	N/A
		ISKIP	N/A	N/A	9	<b>@</b>	10	0	N/A
		ABLK	N/A	Meters	0.0	50.0	-	0	N/A
		PRINT	N/A	Minutes	۰ 0 ۰ ۷	N/A	20	0	N/A
		ULT	u or ū	Meters sec	N/A	N/A	-	0	N/A
		VLT	v or D	Meters sec	If D then	N/A	-	<b>6</b>	N/A
				or Degrees	0.0 ≤ D ≤ 360.0				
•		PLT	•	Meters	0.0 A	N/A	7	<b>6</b>	N/A
•		DTLMDA	٨	N/A	0 < DTLMDA < 1	0.95	-	0	N/A

TABLE A-1 (Continued)

Card Group Sequence Number	Namelist	Namelist FORTRAN	Model	Units	Limits	Ø Value	Array Size (words)	Card Columns	Format
84	QLST1	G1	50	Meters sec	0 < G1 < 9.8	0.1	1	©	N/A
	(Cont.)	ISMOTH	N/A	N/A	0 A1	10	п	0	N/A
		NCNT	N/A	N/A	O Ai	23	-	0	N/A
		IUNII	N/A	N/A	0		-	9	N/A
9 .	N/A	IST	N/A	N/A	$1 \le IST < LL$	N/A	-	1.4	71
		QNI	N/A	N/A	$1 < IND \le LL$	N/A	7	5-8	14
		JST	N/A	N/A	$1 \le JST < JL$	N/A	н	9-12	14
		JND	N/A	N/A	$1 < JND \le JL$	N/A	H	13-16	7
		НС	Ħ	Meters	٥٠٥	N/A	IDIM* JDIM	15-74	14x, 10 F6. 1 ©

- in the program shown in Appendix B is 18000. Also, if IDIM or JDIM is set greater than 80, the dimension is less than or equal to the dimension of the variable Q in the main program MODEL. The dimension of Q The parameters IDIM and JDIM are limited by the equation N = (7\*(IDIM\*JDIM)+2\*IDIM+2\*JDIM) where N of x or y in subroutine JACK must be increased to the new value. Θ
- The value column indicates which parameters have default values should they be set to zero. All parameters with an N/A in this column must have values specified on input. 0
- All namelist input parameters must leave column one blank. See Section A. 3. 0

5 17 1 HF 13

# TABLE A-1 (Continued)

are set to zero, IDIM and JDIM must have values greater than or equal to 41. The UTM default coordinates Y(2) are zero, LL and JL are both set to 41 and the X and Y arrays are automatically filled with the UTM coordinates of the standard WSMR terrain elevation data shown in Section A. 6. Also, when X(2) and Y(2) The default values for LL and JL are IDIM and JDIM except when X(2) and Y(2) are zero. When X(2) and in kilometers are: •

Y = 3340, 3420, 3500, 3540, 3560, 3570, 3575, 3580, 3585, ..., 3700, 3705, 3710, 3715, 3720,X = 100, 180, 260, 300, 320, 330, 335, 340, ..., 470, 475, 480, 490, 510, 550, 630, 710 3730, 3750, 3790, 3870, 3950

where the center of each axis is in 5-kilometer increments.

- (5) See Section A. 4.2 for the allowable ISKIP values.
- See Section A. 4.3 for the input statements used to read the terrain elevation data. 9 A-6
- (7) Card Group No. 3 is read only if ISKIP(5) is zero.

### A.3 DATA INPUT METHOD

This computer program uses formatted as well as namelist input statements. The parameters using a formatted read statement are self explained in Table A-1. The namelist input data must be in a specific form in order to be read using a NAMELIST list. The first character in each card to be read must be blank. The first card in the namelist list contains the namelist name preceded by the character \$. The last card in each namelist list contains \$END to terminate the list. The form of the remaining data items in the list may be:

- a. Variable Name = Constant The variable name may be a subscripted array name or a single variable name. Subscripts must be integer constants. The constant may be integer or real.
- b. Array Name = Set of Constants (Separated by Commas) The array name is not subscripted. The set of constants consists of constants of the type real or integer. The number of constants must be less than or equal to the array size. Successive occurrences of the same constant can be represented in the form  $k^*$  constant.

The sequence of the input data parameters within the list is not significant. A more detailed explanation of the FORTRAN NAMELIST can be found in any Fortran Language Manual. The input parameters within the namelist that have default values in Table A-1 are initialized to zero prior to input of the first case. Parameters that are not used or have default values need not appear in the namelist list. When multiple cases are stacked, all parameters retain their values from the previous case and are changed only by input.

### A.4 EXPLANATION OF PROGRAM INPUTS

The program input parameters are arranged into four card groups.

### A.4.1 Card Group Number 1

This card group contains information specifying the number of cases to be executed and the size of program storage arrays.

- ND Number of times to loop through the entire program reading a new set of values for NP, IDIM and JDIM on each loop.
- NP Number of times to loop through the main calculation routine using constant values of IDIM and JDIM and reading Card Group 2 (also Card Group 3 if requested) on each loop.
- IDIM Maximum number of grid coordinates in the x direction for all cases within the NP loop.
- JDIM Maximum number of grid coordinates in the y direction for all cases within the NP loop.

(IDIM and JDIM are used to determine the size of program storage arrays at execution time. See Table A-1 for the limits on these parameters.)

### A. 4. 2 Card Group Number 2

This data card group contains most of the program input data.

The data parameters in this group are read using the Fortran Namelist QLST1 to simplify program input and reduce the number of input cards for similar cases stacked in sequence. Table A-1 gives default values for applicable parameters in

this card group. Also, all parameters in this card group retain the value set by the previous case unless changed by input.

- LL Number of grid coordinates in the x direction for the present case.
- JL Number of grid coordinates in the y direction for the present case.
- Array containing the coordinates of the x-axis of the grid system in ascending order.
- Y Array containing the coordinates of the y-axis of the grid system in ascending order. See Table A-1 for default values for x and y.
- ISKIP Program option control flag. All ISKIP options are assumed initially zero.
  - a. If ISKIP(1) is set to 1, the calculated wind field and layer height values are printed at each time given in the array PRINT below.
  - b. If ISKIP(2) is set to 1, the wind field and layer height arrays are output to tape at each time given in the array PRINT. If ISKIP(1) and ISKIP(2) are both zero, then ISKIP(2) is set to 1.
  - c. If ISKIP(3) is set to 1, the terrain height matrix is output to tape (ISKIP(2) must equal 1 also).
  - d. If ISKIP(4) is set to zero, the program assumes ULT and VLT below are input as the initial u and v components of the wind speed and the adjusted u and v components are printed in the wind field output print file.

If ISKIP(4) is set to 1, the program assumes ULT and VLT are input as the initial u and v components of the wind speed and the adjusted wind speed and direction are printed in the wind field output print file.

If ISKIP(4) is set to 2, ULT and VLT are assumed to be the initial wind speed and direction and the adjusted u and v components of the wind speed are printed in the wind field output print file.

If ISKIP(4) is set to 3, ULT and VLT are assumed to be the initial wind speed and direction and the adjusted wind speed and direction are printed in the wind field output print file.

e. If ISKIP(5) is set to 0, the terrain height matrix is input in Card Group Number 3.

If ISKIP(5) is set to 1, the terrain height matrix used in the last executed case is used in the present case.

- ABLK Minimum layer depth. If the layer depth is found to be less than ABLK in any iteration, the layer depth is then set to ABLK. A value of 50 meters is assumed if zero is input.
- PRINT Array containing the iterative time step value in minutes at which the wind field and layer height values are to be printed and/or output to tape. Values are arranged in ascending order.
- ULT The initial u component of the wind speed if ISKIP(4) is set to 0 or 1.

  The initial mean wind speed if ISKIP(4) is set to 2 or 3.
- VLT The initial v component of the wind speed if ISKIP(4) is set to 0 or 1.

  The initial direction if ISKIP(4) is set to 2 or 3.
- PLT The initial surface layer height.

DTLMDA - Stability factor used in calculating the time step DT. This value should be as close to 1 as possible. The program assumes a general value of 0.95 if zero is input. Program instability is indicated by a program message IFLAG ERROR. When this occurs, either the value of DTLMDA or NCNT must be reduced.

G1 - Reduced gravity factor, where G1 =  $g\left(1 - \frac{\rho_1}{\rho_0}\right) \simeq g\left(1 - \frac{\theta_0}{\theta_1}\right)$ 

g = the acceleration of gravity

 $\theta_1$  = the potential temperature at the top of the surface layer

 $\theta_0$  = the potential temperature at the bottom of the surface layer

 $\rho_1, \rho_0 = \text{respective layer densities}$ 

The program assumes a value of 0.1 for G1 if zero is input.

ISMOTH - The number of time steps between the application of a nine-point filter to the adjusted values of the wind field. A value of 10 is assumed if zero is input. If no smoothing is desired, set ISMOTH to a large value, say, 10,000.

NCNT - The number of time steps between the recalculation of the time step time increment DT. A value of 2 is assumed if zero is input.

The Fortran logical output unit for tape output. The program uses
 NTRAN I/O with unit O an illegal unit. The program assumes unit 1 if
 zero is input. If more than one reel of output is executed, a second reel
 must be assigned to IUNIT + 1. See Section A. 7 for the output tape format.

### A. 4.3 Card Group No. 3

This card group contains the terrain heights and the starting and ending indices that define the area of storage of the terrain heights within the grid system. The terrain heights outside of the input areasare calculated from the

minimum height and the height on the edge of the input terrain. The starting and ending indices of the x and y axes are input first, followed by the terrain heights.

IST - Starting index of the terrain height matrix in the x direction.

IND - Ending index of the terrain height matrix in the x direction.

JST - Starting index of the terrain height matrix in the y direction.

JND - Ending index of the terrain height matrix in the y direction.

HG - The matrix of terrain heights input by the following Fortran statements:

DO 10 J = JST, JND 10 READ (5, 2000) (HG(I, J), I=IST, IND) 2000 FORMAT (14X, 10F6, 1)

### A.5 SUBROUTINE LINKAGE FOR THE COMPUTER PROGRAM

The logical linkage for the computer program subroutines is shown in Figure A-1. Each connector represents a communication link between the subroutines.

### A. 6 EXAMPLE COMPUTER PROGRAM

This section explains the input data example shown in Figure A-2. The example consists of a problem with WSMR terrain elevation data. The example data shown here is a computer listing of the data. The data are stored in a program file as an element of the file.

The first card image shown is a system (@MAP, I) card starting in column one. This card is used to direct the system to link the program subroutines and form an absolute program deck. The second card image @XQT directs the system to load and execute the program using the data that follow.

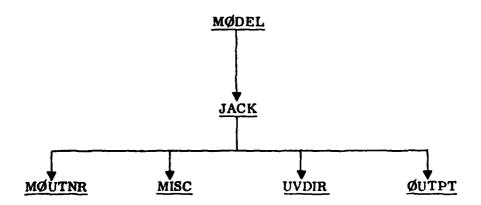


FIGURE A-1. Diagram of linkage between subroutines of the computer program.

2

FIGURE A-2. Computer listing of the example input data.

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	.42651.47621.32347.02255.52154.02072,61950,72942,21889
_	.313.10.71447.415U2.71645.91767.81304.51216.21200.9120U.
	6.2:2<5.31231,41231,41249,71889,42133,6274
	2743.22499,42499,42255,52103.12072,61981,22011,71489,
000 2500	
	91436 71521.01633.72036.11706.91271.01210.11197.91194.
	,024B
	.c.ze?.egito4.ic.i.33.egi.30.iculi/culi/im20.
000000	.21453.01527.11645.91615.41645.91231.41185.71200.91194.
<b>000000</b>	11243.61249.71264.91316.71737.42011.72434
	12316.52072.62133.62011.72011.72011.71404.
	!
	3.71578.31585.01777.01706.91826.81213.11210.11194.81200
	1214-21216-41226-31240-31240-3125-9130-2133-6200-2
	.11737.41828.81524.01185.71200.01194.A1197.
_	21.31.41258.81280.21716.71371.61767.42072.622
	.42493.32374.42142.72042.21920.21828.81428.
	,01619.31706.91737.41767.81255.81185.71191.41185,71194
	2J7.01219.21240.51244.91292.41735.0140A.21585
	2042.22529.82411.02161.72130.72087.91950.71798.31859
	4.000 tocate market total
	12-13-17-1-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	1453.92438.422H3.02218.92072.62255.52011.71749.61499.
	51207,01207,012
	1100.00737
-	
	.913'4,5'767.31767.81767,31289.31216.21207,01216,21222.
701 200700	02042.22
	, al BAa, 81920.
	. 21234.41225.41222.3122H.
•	31578,91950,71874,5225
7600	1.12-17.32-64.12529.82286.0237.22101.12042.21920.21AR6.
	1.43-72 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.4
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or: 97-0	*11. /1 102. /100F. 5173/ "12194.6 13U.

FIGURE A-2. (Continued)

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79.	3.	). (	25.0	340	4,0	36,	10°	)°	(·L t	، ار	300	JC v	797	300	 	390	3.50	ىلىن	.5.	25.5	O D O	373	77.7	J.C.	300
817770	#11700	777700	STYPO	900117	967779	000119	001100	00-121	000122	00~123	921000	921190	921000	000127	971700	001129	96 1700	9cc 31	000132	201230	46.1.40	SE 1100		1 000137	6CT-72

FIGURE A-2. (Continued)

The first data card shows a 1 in column two. This value (ND) is the number of times the entire program is to be executed reading a new set of dimension parameters on each pass. The second data card sets NP to 1 and IDIM and JDIM both equal to 41. The parameter NP represents the number of times the program is to be executed using IDIM and JDIM set to 41. All following cards beginning with \$QLST1 are repeated NP times. The third data card begins the namelist QLST1. The parameter ISKIP indicates:

- (1) The adjusted wind field and layer heights are printed at each time given in the array PRINT
- (2) The adjusted wind field and layer heights are output to tape
- (3) The terrain heights are output to tape
- (4) ULT and VLT are input as vector components and mean wind speed and direction are printed in the output listing
- (5) The terrain height data will be input following the namelist QLST1.

The remaining parameters in QLST1 indicate that output is to take place at 180 and 300 seconds iteration time and the u and v components of the wind speed are set to 7 meters per second. Also, the initial surface layer is 2800 meters high and filtering is to be done on each fifth time step and the output unit is Unit 1. Several parameters from QLST1 do not appear in the data because default values are provided. The parameters and values are:

LL=41; JL = 41; X = UTM coordinates of terrain (see Table A-1);
Y = UTM coordinates of terrain (see Table A-1); ABLK = 50 meters;
DTLMDA = 0.95; G1 = 0.1; NCNT = 2.

The namelist is then ended with a \$END card. The next card gives the starting and ending indices of the x and y axes, respectively, which define the area of storage for the terrain heights that follow. The terrain heights begin in Column 15 of the card and are read using the statements shown in Section A. 4. 3.

The above example problem executed in 302 seconds on the UNIVAC 1108 computer at the University of Utah. The computer output listing for the sample problem is shown in Appendix C.

### A. 7 OUTPUT TAPE FORMAT

The output tape produced by the program is a binary (odd parity) tape. The data are recorded in integer binary and floating point binary (real) form. The tape (tapes) is in multiple file form where each file represents the output from a single case. The records of each file are arranged as follows:

### RECORD 1:

Word 1 - Number of times the arrays UL (u component), VL (v component) and PL (layer height) occur within the file (integer).

Word 2 - Flag where if set to 1 indicates record 4 contains the terrain height data HG. If set to zero, then record 4 contains the first occurrence of UL (integer).

Word 3 - IDIM or the I dimension of the arrays UL, VL, PL and HG (integer).

Word 4 - JDIM or the J dimension of the arrays UL, VL, PL and HG (integer).

Word 5 - LL or the number of values in the x axis in record 2 (integer).

Word 6 - JL or the number of values in the y axis in record 3 (integer).

Word 7 - IST or the starting index on the x axis of uniform grid spacing (integer).

Word 8 - IND or the ending index on the x axis of uniform grid spacing (integer).

Word 9 - JST or the starting index on the y axis of uniform grid spacing (integer).

Word 10 - JND or the ending index on the y axis of uniform grid spacing (integer).

RECORD 2: LL words consisting of the x axis in ascending order (real).

RECORD 3: JL words consisting of the y axis in ascending order (real).

RECORD 4: If Word 2 of Record 1 is set to 1, then Record 4 contains IDIM\*JDIM words of terrain height data. The data are arranged as if the following statement were used to write it:

((HG(I,J), I=1, IDIM)J=1, JDIM) - HG is a real variable.

RECORD 5: The u component of the wind speed (real). These data are arranged as if they were written by the following statement:

$$(UL, (I, J, 2), I=1, IDIM), J=1, JDIM)$$

RECORD 6: The v component of the wind speed (real).

$$(VL(I, J, 2), I=1, IDIM), J=1, JDIM)$$

RECORD 7: The height of the surface layer (real).

$$(PL(I, J, 2), I=1, IDIM), J=1, JDIM)$$

Records 5, 6 and 7 are repeated (4, 5 and 6 if word 2 of Record 1 is 0) the number of times indicated in Word 1 of Record 1. If more than one reel of output is written, an end-of-file is placed at the end of the first reel. This file mark will appear within the affected file and will indicate a switching of reels is necessary on input. (The program will rarely require more than one reel of 2400 foot tape, even with several stacked cases.) The program prints the contents of each output tape file at the end of each case loop.

## APPENDIX B COMPUTER PROGRAM LISTING

Appendix B contains a complete listing of the computer program. The program is written in the FORTRAN V language and has been run on a UNIVAC 1108 computer.

Control of the Contro

Stated Hork For Olde-06/11/75-11:27:21 (0:1)

MAIN PROGRAM

STOMAGE USEJ: COLETT! BOULZS! DATATO! U43140! BLANK COMMONIZ! DBDBBB

CO-#:OF FLOCKS:

8003 LIM U00003

EXTLANAL REFENENCES (BLUCK, NAML)

STOWAGE ASSIGNMENT (BLUCK, TYPE, RELATIVE LOCATION, NAME)

0000
3 I 000000 IDIM 0 I 043125 J2 10 I 043132 J6
1 J12 0000 J7 0000
3060 I 043121 3000 I 043123 3000 I 043131
043133 30F 043122 J11 043130 J6 000000 0
0000 0431 0000 I 0431 0000 I 0431
000013 1106 043124 J1 043127 J5 000002 NP
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

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	<b>.</b> .	<b>U</b> U	THE DIMENSION OF G IS DETERMINED BY, SIZE MUST BE GREATER THAN OR PERGUAL TO (3e(IDIMe-USIMe-USIMe-USIMe-2e-DIM-2e-DIM) MHERE IDIM	MUL00200
10100	•	U	_	MDL00400
		زر	DIFERSION	MDL00500
		U	NO IS THE 140. OF TIVES TO EXECUTE EVITINE PROGRAM	MDL00700
10100	•	U	NP IS THE NO. OF TIMES TO EXECUTE PROGRAM USING ONE SET OF	MDL.00800
10100	<b>3</b>	U	DIACNSIONS IDIM AND JUIM	MDL00900
50100	•01		COMMON/DIM/IDIM/ JDIM/ J	MDC 01000
10100	11.		9	MDL01100
10100	12.		00 40 I=1.ND	MDC 01200
27100	130		READ (5:30) NP.10IX.JOIM	MOL 01300
96117	740		IN TOTAL STATE OF THE STATE OF	MOL01400
92796	15.		J12 = J11•2	MDL 01500
17100	704		U1 = U12+1	MOL01600
27190	17.		12 = 11+012	MDL 01700
2772	10.		JA = J2+J12	MUL01800
****	-61		- III)	POC 01900
2712	•07		1 40+101x	MOL 02000
92100	-17		- 101+101×	MDL 02100
00127	***		1 07-101X	**OL 0220U
05700	***		CALL JACK (0.0(J1).5(J2).0(J4).0(J3).0(J6).0(J7).0(J8).1.0(J4).0.	27C2300
95730	• • • •			AOL U2400
06131	•07	Ñ	2u CONTINUE .	42C02500
00133	۶0.	ñ	FOLMAT (12.213)	AL 12000

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B-3

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ENTILY POLIST 005307 SUBROUTI.IC JACK STORAGE USEU: CUINELLI BUSBOTI DATALUI BUZZGIT BLANK COMMONIZI BODDOU

COMO. HLOCKS:

200000 113 000

EXT. RILL REFERENCES (ULCCK+ NAME)

STAN COSTAN COST

STORAGE ASSIGNMENT (BLOCK, TYPE, RELATIVE LOCATION, NAME)

KK XX TK TX

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	P <sub>2</sub>	0000	K C007		69	0000	c	<b>00673</b>	A7	0000	10000			0000	00	10716
	72	0000	R U007		73	0000	8	00740	A74	0000	9000		ň	0000	8	0625
	77	0000	R 0000		78	0000	0	00622	A79	0000	000656		48	0000	ě	000630
	o	0000	R 0007		-	0000	0	00725	B2M	0000	1 0007		<b>Q</b> .	0000	~	10742
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	3	0000	R 0007		3P	0000	0	00554	DELY	0000	1 00005	_		0000	6	10477
	H.	0000	R 0005		YP	0000	0	99900	T.	0000	9000	_		0000	6	9040
	3.	0000	R 0005		-	0000	<u>د</u>	00544	62	0000	2000 1			0000	ŏ	20245
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	CIR	0000	1 0020		_	0000	0	00516	エコラ	0000	5000 1		112	0000	5	12033
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		0000	1 0005		E C	0000	0 1	00537	LINES	0000	0050		_	0000	7	10517
	ᅂ	0000	1 0005			0000	0	00502	NCNT	0000	2000 1		9	0003	ŏ	20000
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	LXM	0000	H 0006		LXMI	0000	<u>د</u>	00603	PLXMYP	0000	1 0005		d.X	0000	ŏ	10610
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	s	0000	R 0005		TOP	0000	œ	00542	<b>41</b> H	0000	2000		¥	0000	ĕ	9##00
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	9	0000	R 0004		ב	0000	e E	00563	VLXM	0000	9000 2		XMYP.	0000	€ 6	09500
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A62 A71 A71 A71 A76 A86 B834 CC2P CC2P IPDIM ISPOTH ISPOTH PRINT SS2I CLYP VLXP VLXP

-	35	SUBHOUTINE JACK (UL, VL, PL, MG, UELXI, DXPI, DELYJ, DYPJ, CONTP, HGG, ULJCKOO100	HGG, ULJCKOD100
*	191	10.VL0.PL0)	JCK00200
å	U		JCK00300
;		PROGRAM INPUT AND CONTROL PARAMETERS - REFER TO THE NAMELIST +-+JCK00400	ST *-*JCK00400
\$		JUSTI BELOW FOR INPUTS TO THIS HOUTINE	*-*JCK00500
•	v		JCK00600
*	c	UT -R- TIME INCREMENT (SECONDS).	JCK00700
•	9	6(1,J) -K- MEIGHT OF LAND AT COONDINATES (1,J).	JCK00800
*	C IFL	IFLAG -I- FLAG TO INDICATE THE PROBLEM IS GROWING UNSTABLE	JCK0090U
10.	<del>ا</del>	L -I- NUMBER OF GRID POINTS IN J DIRECTION	JCK01000
-11	3	LM -1 - CL MINUS ONE.	JCK01100
120	<u>ا</u>	LL -I- NUMBER OF GRID POINTS IN I DIRECTION	JCK01200
7.7	3	LM -1- LL MINUS ONE.	JCK01300
:	Š	L(1,Jok) -R- HEIGHT OF SURFACE LAYER	JCK01400
15.	٠ ج	PLT -R- INITIAL HEIGHT OF SURFACE LAYER	JCK01500
••	3	L(1,J,K) -R- U COMPOSENT OF THE BIND IN THE LUGER LAYER	JCKU1600
17.	3	ULT -R- U COMPONENT OF LOWER LAYER WILL (INITIAL CONDITION)	JCK01700
•01	J	OR MEAN WIND SPEED DEPENDING ON ISKIP(4)	JCK0140J
19•	ند	VEC(1, J.K) -R- V COMPOSENT OF THE MIND IN THE LOGER LAYER	JCK01900
•	<u>ر</u> د	KLT -R- V COMPUTENT OF LOWER LAYER WILL CITITAL CONTITION	JCK 02006
• • • •	U	OR WIND DIRECTION DEPENDING ( + 15AIP(4)	JCK02100
•	C ×	(1) -k- A COOKDINATE VALUE 1.	JCK02200
•	7	TAIL THE T COOKDINATE VALUE IN	JCK 02 300

10100	.1.	IJ	"UPI I NUMBER OF TIMES THE AKHAYS UL: VL AND PL	JCK08100
10100	• NO.	U (	ARE OUTPUT	JCK08200
10100	3	U (	AUFD 2 FLAG WHERE IF SET TO 1 TERRAIN HEIGHT DATAJCK06300	JCK 08300
10100	9 4	) ر	13 ON THE TABLE 18 YOUR THERE 15 NO	JCK08400
10100	00	) د	TERRAIN DATA ON TAPE	JCK 08500
Intro	9	y (	WORD 3 IS IDIA (THE I DIMENSION OF UL, PL	JCK08600
10100		<b>.</b> (	C (CENTROPERTOTION OF THE CASE	JCK08700
10100	9 6	ט נ	AND A SOUTH CONTRACTOR OF OUR PLANTS	
10100	*05	Ü	LL (THE NO OF POINTS	CK09000
10100	•16	U	NO OF WORDS USED MITHIN IDIM!	JCK09100
10100	920	U (	(THE NO OF POINTS	JCK09200
10100	976	U (	-	JCK09300
10100	***	<b>.</b>	151 ST > 151 ST = 150	JCK09400
	• 0	ن ر		CK 09500
00100	47.6	, u	0	JCK 09700
10100	38.	U	2 - THE X	JCK09800
10100	•65	U ·	<b>F</b> )	OCK 09900
10100	100	ų,	RECORD 4 - THE TERRAIN HEIGHT ARRAY (HGG(1), 1-1, 10014)	JCK 10000
70100	•101	, (	ONLY IN ISKIP(5) ON WOND 2 OF RECOMD INS SET	JCK 10100
	- FO	<b>,</b> (	TAUTHORNERS TO	
19100	10	· u	RECORD 5 - THE U COMPONENT OF THE MIND SPEED	10K10K00
10100	105.	U	)	JCK 10500
10100	106.	U		JCK 10600
10100	107	Ų (	RECORD 6 - THE V COMPONENT OF THE WIND SPEED	JCK10700
10100	-031	<b>.</b>		JCK 10800
10100	• • • • • • • • • • • • • • • • • • •	<b>.</b> (	RECORD 7 - THE MEJOH OF THE MIXING LAVER	00601XU
	977	, (	CIAL DIA GARAGES TORS AND	90011400
	1120	ن د	THE THE THE THE THE WORKEN TO BE SELECT THE THE THE THE THE THE THE THE THE TH	0011100
	1130	υ	NOTE - IN THE CASE WORE THAN ONE REEL IS WRITTEN A FILE COULD	JCK 1 1300
10100	1140	U	SP.N BOTH REELS, IT: THIS CASE A FILE MARK WILL APPEAR WITHIN THE	JCK21400
10100	115.	U	FILE THAT SPANS THE REELS AND WILL INDICATE END OF TAPE DIE,	JCK11500
10100	1100	u	THE PROGRAM WILL PPINT THE CONTENTS OF EACH FILE AT THE END OF A	JCK 1 1600
10100	1170	U	PRUBLEM RUN AND ATLL INDICATE IF ONE OK TWO REELS WERE WRITTEN	JCK 11700
10100	118.	u (		JCK11800
10100	0077	، د		JCK 11900
10100	1400	<b>,</b> (	OCTIVACI - METEROSCHOID ON IMETERS/SECOND. DEGREES	JCK 12000
	1220	υ	PRINT - EINCHES	JCK 12200
00101	1230	U	61 - METEHS/SECOND++2	JCK12300
10100	1240	ų,		JCK12400
10100	677	<b>.</b> .	;	JCK 12500
10100	126.	u e	ABLK # 50' DTLMDAR .95' GIR 0.1' ISMOTHERO. NCNTE Z.	JCK 12600
19100	1270		ISKIP(1) = 0, ISKIP(2) = 1 (ONLY IF ISKIP(1)=0), ISKIP(3)= 0, ISKIP(3)	JCK 12700
	1200	. ر	, i	10 K 1 2000
10100	126	u	X AND Y ARRAYS	JCK 1 3000
10100	1310	U	ARRAYS XPS AND YPS BELOW AND ARE CONVERTED TO METERS)	JCK13100
10100	***			JCK13200
10170	1330		• DECLARATIONS. ••••	00K11300
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	****	,	CO 12 ON / DIM / In I w. W. I	JCK 1 3500
			11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	JCK 13600
*0100			1.01-1.0ELAI (1013), JAPI (107-1.0ELA), JAPA (1.013), JAPA	JCK13700

LCK1570 LCK1570 LCK16600 LCK16600 LCK16600 LCK16600 LCK16600 LCK16600 LCK16600

JCK15300 JCK15400 JCK15500 JCK15600

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JCK13900 JCK14000 JCK14100

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	1 M. 0	0.10 Maria (0.10)	JCK 19600
LES = 41.	1970	.A. D. Y (2) . 6T. 0.0) 30 TO	JCK 19700
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### ##################################			
Continue			20661436
### 2.4.1  U. O. D. 12.1.1.  U. O. D. 12.1.1.  U. O. D. 12.1.1.  ### 2.4.1.  ### 2.4.1.1.  ### 2.4.1.1.  ### 2.4.1.1.  ### 2.4.1.1.1.1.  ### 2.4.1.1.1.1.  ### 2.4.1.1.1.1.1.  ### 2.4.1.1.1.1.1.1.  ### 2.4.1.1.1.1.1.1.1.  ### 2.4.1.1.1.1.1.1.1.  ### 2.4.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.  ### 3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1007	T = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	つつつつという
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60 Y(1) = X(5) = 10 + 3  61 X = X(5) = X(5) + 10 + 3  62 X = X(5) = X(5) + 10 + 3  63 X = X(5) = X(5) + 10 + 3  64 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) = X(5) + 10 + 3  65 X = X(5) + 10 + 3	ديء.		JCK 20200
6.0 (11) = YS(1)*1.0E3 6.0 (11) = YS(1)*1.0E3 6.0 (11) = YS(1)*1.0E3 6.1 (11) = YS(1)*1.0E3	Zi.3•	X E	JCK20300
C GENERAL HELE OUTPUT TARRAL HE GRIC AREA  I HISTORIE OUTPUT TARRAL HE DATA IF DESTREY  I HISTORIE OUTPUT TARRAL HE DATA IF DESTREY  I HISTORIE OUTPUT TARRAL HE DATA IF DESTREY  I HISTORIE OUTPUT TARRAL HE DESTREY  AND (13) = 101H  HOUTE = LASTREY 13)  CALL MISCISTINDIATE LIMITES OF AREA OF UNIFORM GRIU SPACTHO  CALL MISCISTINDIATE LIMITES OF AREA OF UNIFORM GRIU SPACTHO  CALL MISCISTINDIATE LIMITES OF AREA OF UNIFORM GRIU SPACTHO  CALL MISCISTINDIATE LIMITES  AND CALL OUTPUT LIMITES OF OUTPUT OUTPU	2040	3	CCX20400
	*507	CO.47	JCK20500
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C HITTALIZE OUTURE TAPE DATA IF DESIRED  IF (18AIPLE)(E., 1) GO TO 140  MOUTIS) = 15KIP(2)(E., 1) GO TO 140  MOUTIS) = 15KIP(2)(E., 1) GO TO 140  C DETERMILE LORGINATE HINDICES OF AREA UF UNIFORM GRID SPACING  C MITTAL HE GRID  C ALL MISCLISTINDAY.LLLM)  ITAGES I TO THAT (1000 T. L. L. L. M.)  ITAGES I TO THAT (1000 T. L. L. L. M.)  I MAGO(E., 1) GO TO 900  C ALL OUTPTILUATI.LLY MAGO)  IF (MOGO(E., 1) GO TO 900	4273		ורולטטאטו
Trail   Trai		-	200000
I	903		20202430
ITSKIP   15   15   15   15   15   15   15   1	·607	D	3CK20900
MOUT(2) = 101M MOUT(2) = 101M MOUT(2) = 101M MOUT(3) = 101M MOUT(3	210	2	JCK21000
MOUT(4) = JDIM MOUT(4) = JDIM MOUT(4) = JDIM CELEMINE CONDINATE INDICES OF AREA OF UNIFORM GRID SPACE:6 ALTHIN THE GRID CALL MISC(157-100)**LL-LLM) ITA6=1	<11°	#0UT(2) = 15KIP(3)	JEK21100
C DELEMBLE LORDINATE LINICES OF AREA OF UNIFORM GRID SPACE:  CALL MISC(1ST-IND)*A-LL-LLM)  [ALL MISC(1ST-IND)*A-LL-LLM)  [ALL MISC(1ST-IND)*A-LL-LLM)  [ALL MISC(1ST-IND)*A-LL-LM)  [ALL MISC(1ST-IND)*A-LL-LM)  [ALL MISC(1ST-IND)*A-LL-LM)  [ALL MISC(1ST-IND)*A-LL-LM)  [ALL MISC(1ST-IND)*A-LL-LM)  [ALL MISC(1ST-IND)*A-LN-LM)  [ALL MISC(1ST-IND)*A-LN-LM)  [ALL MISC(1ST-IND)*A-LN-LM)  [ALL MISC(1ST-IND)*A-LN-RM)  [ALL OUTPT(1UMIT-LL*A-N-NOGO)  [ALL OUTPT(1M-NOGO)  [ALL OUTPT(1M-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-N-N-N-NOGO)  [ALL OUTPT(1M-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N	2120	TICI II (N) II OT	JCK21200
C DETERMINE COGNOINATE INDICES OF AREA OF UNIFORM GRID SPACENG CALL MISC(LSTIND)*ALLALM) ITAGE AND CALL MISC(LSTIND)*ALLALM) ITAGE AND CALL MISC(LSTIND)*ALLALM) ITAGE AND CALL OUTPILUMIT-12:  J12 = 10  CALL OUTPILUMIT-12:  J12 = 10  CALL OUTPILUMIT-12:  J13 = 10  CALL OUTPILUMIT-12:  J14 (NOGO EG. 1) 60 TO 900  IF (N	130		JCK21300
CALL MISC(1ST-IND) AND	41.7		2000
CALL MISCUSTIND'R'.LL.LM)  CALL MISCUSTIND'R'.LL.LM)  ITAGIZI  IF ANGELED  CALL OUTPY(IUNIT'.22)  IF (NOGO .EG. 1) 60 70 900  CALL OUTPY(IUNIT'.LL'R'NOGO)  IF (NOGO .EG. 1) 60 70 900  IF (NOGO .EG.			2011444
CALL MISCUISTAINDAYALAM)  1746121  ITA6121  ITA6122  IF (IUNITALIANDAYALAM)  IF (NOGO - EQ. 1) 00 TO 900  CALL OUTFILMITALASAOUTANGO)  IF (NOGO - EQ. 1) 60 TO 900  CALL OUTFILMITALASAOUTANGO)  IF (NOGO - EQ. 1) 60 TO 900  CALL OUTFILMITALAYANGO)  IF (NOGO - EQ. 1) 60 TO 900  IF (NOGO - EL MITTAL VALUES OF WIND AND PRESSUME CALCUATE INITIAL VALUES OF WIND AND PRESSUME OF THE VALUE OF	277		10017V20
TABLE	470		JCK21600
	2170		JCK21700
F (IUNIT .LE. 0)   IUNIT = 1	2100	1746121	JCK21800
CALL NIRAW(IOWIT:22)  JE = 10  CALL OUTPT(IWIT:J12:MOUT:1060)  If (NOGO .EG. 1) 60 TO 900  CALL OUTPT(IWIT:LL:X:NOGO)  If (NOGO .EG. 1) 60 TO 900  If (NOGO .EW. 1) 60 TO	200	TIMIT OF THEIR	CKSTOOD
JAZ = 10  JAZ = 10  JAZ = 10  CALL OUTPT(IUMIT-J12.MOUT-1060)  IF (NOGO -EQ. 1) 60-TO 900  CALL OUTPT(IUMIT-LL.N.NOGO)  IF (NOGO -EQ. 1) 60-TO 900  IF (NOGO -EQ. 1) 60-TO 900  IF (NOGO -EQ. 1) 60-TO 900  IF (NOGO -EW. 1) 60-TO 900  CALCULATE INITIAL VALUES OF WIND AND PRESSURE  JAMES OF THE STATEMENT OF THE CALUES OF WIND AND PRESSURE  CALCULATE INITIAL VALUES O			
CALL OUTPITUMIT-J12.MOUT-HOGO)  IF (NOGO -EG. 1) 40-TO 900  CALL OUTPITUMIT-LE.X.NOGO)  IF (NOGO -EG. 1) 40-TO 900  CALL OUTPITUMIT-LE.X.NOGO)  IF (NOGO -EG. 1) 60 TO 900  CALCULATE INITIAL VALVES OF WIND AND PRESSURE  DO 160 I=1.JUDIM  PLAIL = PL-HGO(1)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  IF (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  IF (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IF (NOGO)  IN (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IN (NOGO)  IN (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IN (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IN (NOGO)  IN (NOGO)  C TEST FUN TERRAIN PEPETRATION OF LAYER  IN (NOGO)  IN			*******
IF (NOGO .EG. 1) 60 TO 900  CALL OUTPT(ILWIT:.AIZ.MOUT.NOGO)  IF (NOGO .EG. 1) 60 TO 900  CALL OUTPT(ILWIT:.L.Y.NOGO)  IF (NOGO .EG. 1) 60 TO 900  CALL OUTPT(ILWIT:.L.Y.NOGO)  IF (ISKIPIS) .HE. 1) 60 TO 900  IF (ISKIPIS) .HE. 1) 60 TO 900  IGO CALCULATE INITIAL VALUES OF WIND AND PRESSURE  CALCULATE INITIA	221	312 is 10	JCK22100
IF (NOGO .EG. 1) 60.T0 900  CALL OUTPT(INNIT).L. x, NOGO)  IF (NOGO .EG. 1) 60 TO 900  CALL OUTPT(INNIT).L. y, NOGO)  IF (NOGO .EG. 1) 60 TO 900  IAU CONTINUE  C CALCULATE INITIAL VALUES OF WIND AND PRESSURE  DO 160 I=1.101 PM  PLU(I) = PLT-HGO(I)  C TEST FOR TERRAIN PEFETRATION OF LAYER  IF (PLOGI) .LT. ABL!) PLG(I) = ABLK  ULU(I) = VLT*PLG(I)  VLU(I) = VLT*PLG(I)  LABLIDIATE DIVISIGNS IN THE X DIRECTTON:  LAPLIDIA = 1.0/(X(2)-X(1))  DO 160 I=2.LL  DAPLI(I)=1.0/(X(1+1)-X(I))  LAD CONTINUE  C ELIMINATE DIVISIONS IN THE X DIRECTTON:	<b>25%</b>	CALL OUTPT(IWIIT.J12.WOUT.1060)	JCK22200
CALL OUTPT(IUNITALL, X, NOGO)  IF (NOGO -EG. 1) 60 TO 900  CALL OUTPT(IUNITAL, Y, NOGO)  IF (NOGO -EG. 1) 60 TO 900  IF (NOGO -EG. 1) 60 TO 900  IS (ISKP) 3) -14E, 1) 60 TO 900  IS (ISKP) 3) -14E, 1) 60 TO 900  IS (ISKP) 10 -14E, 1) 60 TO 900  C ALCULATE INITIAL VALUES OF WIND AND PRESSURE  DO 160 IEA, 1011  IS (PROGI) -LT -HGO(1)  IS (PROGI) -LT -HGO(1)  IS (PROGI) -LT -HGO(1)  IS (PROGI) -LT -HGO(1)  IS (CONTINCE TO	2230	IF (NOGO -EG. 1) 60-10 900	JCK22300
IF (NOGO .EQ. 1) 60 TO 900  CALL OUTPT(IUNIT. L. Y. NOGO)  IF (1SKIP(1))E. 1) 60 TO 900  IF (1SKIP(1))E. 1) 60 TO 900  IF (1SKIP(1))E. 1) 60 TO 140  CALCULATE (NITIAL VALUES OF WIND AND PRESSURE DO 160 I=1.1JOIN PLU(1) = PLT-H50(1)  C TEST FOR TERRAID PEPETRATION OF LAYER  IF (PLO(1) = T. ABL!) PLQ(1) = ABLK  ULU(1) = ULT-PLO(1)  YAW(1) = ULT-PLO(1)  YAW(1) = VLT-PLO(1)  YAW(1) = LOV(X(2)-X(1))  DO 160 I=2.LLK  DELA(1)=1.0/(X(2)-X(1))  DO 160 I=2.LLK  DELA(1)=1.0/(X(2)-X(1))  140 CON:I(1)=1.0/(X(2)-X(1))  150 CON:I(1)=1.0/(X(2)-X(1))  160 CON:I(1)=1.0/(X(2)-X(1))  160 CON:I(1)=1.0/(X(2)-X(1))  160 CON:I(1)=1.0/(X(2)-X(1))  160 CON:I(1)=1.0/(X(2)-X(1))  160 CON:I(1)=1.0/(X(2)-X(1))	2264	CALL OUTPT (ICNIT - L - X - X - X - X - X - X - X - X - X	JCK22400
CALL OUTPTIONITALY, WOOD)  IF (NOGO .EQ. 1) 60 TO 900  IF (SKIPIS) .HE. 1) 60 TO 140  CALL OUTPTIONITALY, WHOON  IF (SOUTH INTITALY) HANDOND AND PRESSURE  CALCULATE INITIAL VALUES OF WIND AND PRESSURE  CALCULATE INITIAL VALUES OF WIND AND PRESSURE  DAG 160 121 101H  PLU(I) = PLT-HOO(I)  VLU(I) = PLT-HOO(I)  VLU(I) = ULT-PLO(I)  IOU COMITIVE  JPH=1  IF (PLO(I) .LT ABLE) PLO(I)  IOU COMITIVE  JPH=1  IF (PLO(I) = 1.0/(K(2)-K(1))  DO 180 1=2.LLK  DELA(I)=1.0/(K(1+1)-K(1))  DO 180 1=2.LLK  COMITIVE  COMITIVE  CALCULATE INITIAL .INISIUM IN THE X DIRECTION.  CALCULATE INITIAL .INISIUM IN THE X DIRECTION.	200		CKSSROO
F (10060 - EQ. 1) 60 TO 140     F (15KIP(3)			
IF (ISKIP) 19 60 70 140  IF (ISKIP) 19 60 70 140  CALL OUTPT(LUNIT.IJ!)M+M60-N060)  IF (1000 .Ew. 1) 60 70 900  IF (1000 .Ew. 1) 60 70 900  CALCULATE INITIAL VALUES OF WIND AND PRESSURE  IF (PLOIT) = 11.101M  VLWIT) = ULT-PLOIT)  IBO CONTINUE  JPH:  JPH:  DELAI(1) = 1.0/(X(2.1+1)-A(1-1))  DO 180 1=2.LLM  DELAI(1)=1.0/(X(2.1+1)-A(1-1))  DO 180 1=2.LLM  DOLINE  CONTINUE  CALCULATE LIVISIONS IN THE X DIRECTION  100 00:11ML  CALCULATE LIVISIONS IN THE X DIRECTION  CALCULATE LIVING IN THE X DIRECTIO			JCR & Z & D U
IF (ISKIP(3) .HE, 1) GO TO 140  CALL DUTPILLUMITIUM: HGO-NOGO)  INU CONTINUE  C CALCULATE INITIAL VALUES OF WIND AND PRESSURE  DO 160 I=1,100M  PLU(1) = PLT-HOIM  PLU(1) = PLT-HOIM  PLU(1) = LT-PLO(1)  VLU(1) = ULT-PLO(1)  IGO CONTINUE  C TEST FOR TERRAIN PEPETRATION OF LAYER  IF (PLO(1) .LT. AGL) PLO(1)  IGO CONTINUE  LPHO(1) = LOCK(K-1-1)  IGO CONTINUE  LPHO(1) = 1,0CK(K-1-1)  DO 160 I=2,LLM  DOLA(1)=1,0CK(K-1-1)-X(1)  DO 160 I=2,LLM  DOLA(1)=1,0CK(K-1-1)-X(1)  SOCO-TINUE  C TENTILATE (IVISIUM: IT THE X DIRECTTO:	227	IF (NOW .E.G. 1) 60 10 900	JCK22700
CALL DUTPTIIMITIUM: H60: NOGO)  IGU CONTINUE  C CALCULATE INITIAL VALUES OF WIND AND PRESSURE  DO 160 I=1:IJUDIM PLUID = PLT-H60(1)  C TEST FOR TERRAID REPERTION OF LAYER  IF (PLOID = ULT-PLOID)  VALUED = ULT-PLOID  VALUED = U	2280	IF (ISKIP(3) .4E. 1) GO TO 140	JCK22800
IF (ROGO -EW. 1) 60 TO 900  IAU CONTINUE  C CALCULATE INITIAL VALUES OF WIND AND PRESSURE DO 160 I=1-LUDIM PLU(I) = PLT-MGG(I)  TEST FOR TERRAIN PEPETRATION OF LAYER IF (PLG(I) -LT - ABLP) PLG(I) = ABLK ULU(I) = ULT-PLG(I)  160 CONTINUE DRH=1  IFLAG=0  C ELIMINATE DIVISIONS IN THE X DIRECTION DAPIGID = 1.0/(X(2)-X(1)) DO 180 I=2-LLK DELA(I)=1.0/(X(2+1)-X(1))  100 CONTINUE DAPIGID=1.0/(X(2+1)-X(1))  100 CONTINUE  C ELIMINATE DIVISIONS IN THE X DIRECTION  100 LATIN=1.0/(X(2+1)-X(1))  100 CONTINUE  100 CON	229*	CALL OUTPT(ICIT: ICIT: HGO: NOGO)	JCK22900
140 CONTINUE  C CALCULATE INITIAL VALUES OF WIND AND PRESSURE DO 150 1=1.101M PLU (1) = ETT-HOS(1)  C TEST FOR TERRAND PEPETRATION OF LAYER  IF (PLO(1) .LT. ABLP) PLO(1) = ABLK  ULW(1) = ULT**PLO(1)  VALU(1) = ULT**PLO(1)  ISO CONTINUE LAPELO(1)  ISO CONTINUE LAPELO(1)  ISO CONTINUE LAPELO(1)  DO 180 1=2.LLK  DELA(1)=1.0/(X(1+1)-X(1))  DO 180 1=2.LLK  DELA(1)=1.0/(X(1+1)-X(1))  140 CONTINUE  C	2300	IF (2000 - Ex. 1) 60 TO 900	JCK23046
C CALCULATE INITIAL VALUES OF WIND AND PRESSURE DO 160 I=1.1JUIN PLUIT = PLT-HSO(1) C TEST FOR TERRATUR PEPETRATION OF LAYER  IF (PLOIT) = ULT-PLO(1) VLUIT) = ULT-PLO(1) VLUIT) = ULT-PLO(1) IOU CONTINUE JPH=1 IFLAG=0 C C	7810		JCK23100
DO 160 IE. INLINE VALUES OF WIND ANY PRESSORE DO 160 IE. ILUDIA PLUIJ = PLT-MOSIJ  C TEST FOR TERRAIN PEPETRATION OF LAYER IF (PLOIT) = LT** ABLP! PLOIT] = ABLK  ULVIJ = ULT**PLOIT]  160 CONTRUE  JPH=1  IFLAG=0  C ELIMIATE DIVISIONS IN THE X DIRECTION**  DAPIGIA = 1.0/(X(2)-X(1))  DO 180 I=2·LLK  DELAINIEL OF (X(2+1)-X(1))  100 CONTRUE  C ELIMIATE DIVISIONS IN THE X DIRECTION**  DAPIGIA = 1.0/(X(2+1)-X(1))  100 CONTRUE  TABLET OF CONTRUE OF C			
DO 160 I=1.101M PLU(I) = PT-H001M IEST FUR TERRAIN PE(ETRATION OF LAVER IF (PLO(I) .LT. ABL) PLO(I) = ABLK ULU(I) = ULTSPLO(I) VLU(I) = ULTSPLO(I) VLU(I) = LETRAIN PE(ETRATION OF LAVER LAMBEL LAMBEL IFLAGEO C C	777	CALCULATE INTITAL VALUES OF	00262400
PLU(I) = PLT-H50(I)	200	100 151 151 151 151 151 151 151 151 151	JCK 23300
C TEST FOR TERRAIN PERETRATION OF LAYER  IF (PLG(I) .LT. ABLP) PLG(I) = ABLK  ULW(I) = ULTOPLO(I)  VLW(I) = ULTOPLO(I)  IBQ CONTRUC  C ELIMINATE DIVISIONS IN THE X DIRECTION  UNPI(I) = 1.0/(X(2)-X(1))  DO 180 I=2·LLK  DELA(I)=1.0/(X(1+1)-A(1-1))  DON'((I)=1.0/(X(1+1)-A(1-1))  100 CONTRUC  C ELIMINATE DIVISIONS IN THE X DIRECTION  100 CONTRUC  110 CONTRUC	<b>7340</b>		JCK23400
<pre>if (PLO(I) .LT. ABL) PLO(I) = ABLK ULU(I) = ULTPLO(I) VLU(I) = ULTPLO(I) VLU(I) = ULTPLO(I) VLU(I) = ULTPLO(I)  CONTRUC  CON</pre>	456	TEST FOR TERRAIN PERETRATION OF	JCK23500
ULU(I) = ULTSPLO(I)  VLU(I) = VLTSPLO(I)  VLU(I) = VLTSPLO(I)  VLU(I) = VLTSPLO(I)  IFLAG=0  C ELIMINATE DIVISIONS IN THE X DIRECTION.  DATE:  DATE:  DATE:  DATE:  DATE:  LAG CONTINUE  LAG CON		- 12/0/0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ULU(I) = ULISTUGII)		CLOS I TIPLE TIPLE TO THE PARTY TO	000000
VAULT	237		JCK23700
160 CONTINUE  JENES  JELAGEO  C. L. LIMINATE DIVISIONS IN THE X DIRECTION.  DA 180 1=2.LLK  DAVI(1)=1.0/(X(1+1)-X(1-1))  DAVI(1)=1.0/(X(1+1)-X(1-1))  LAO CONTINUE  C. L.	2007		JCK23800
JPW=1  IFLAG=0  C ELIMINATE DIVISIONS IN THE X DIRECTION.  UNPAILL = 1.00(x(z)-x(1))  DO 180 I=2.LK  DELAI(1)=1.0/(x(1+1)-x(1-1))  DAVI(I)=1.0/(x(1+1)-x(1-1))  100 COLIINE  C ELIMINATE INISIONS IN THE Y LIPECTION.	<b>739</b>	_	JCK23900
			JCK2#000
JANUARE DIVISIONS IN THE X DIRECTION.  UMPI(1) = 1.0/(X(2)-X(1))  DO 180 1=2.LLK  DELA[1]=1.0/(X(1+1)-X(1-1))  DNY((1)=1.0/(X(1+1)-X(1-1))  100 CONTINE.  LAND CONTINE.  LA			
C ELIMINATE DIVISIONS IN THE X DIRECTION.  UNPILL = 1.0/(X(x)-X(1))  DO 160 I=2.LK  DELAL(1)=1.0/(X(1+1)-X(1-1))  140 CONTINE.  140 CONTINE.  C ELIMINATE INISIONS IN THE Y LIPECTION.	-147	·	20142470
C ELIMINATE DIVISIONS IN THE X DIRECTION.  UMPI(1) = 1.0/(X(2)-X(1))  DO 180 I=2.LLK  DELAI(1)=1.0/(X(1+1)-X(1-1))  160 CO.1 INUE  C. L. VILATE (17.5 IN THE Y LIPECTION.	242	13	JCK24200
UMPI(1) = 1.0/(K(2)-K(1))  DO 180 I=2-LLK  DELAI(1)=1.0/(K(1+1)-A(1-1))  DNF/(I)=1.0/(K(1+1)-K(1))  100 CO-1ILL  CO-1ILL  LAVINATE INSTRUCTOR	26.30	ELIMINATE DIVISIONS IN THE X	JCK24300
DO 180 1=2.LLW DELA[1]=1.0/(X(1+1)-A(1-1)) DAPI(I)=1.0/(X(1+1)-A(1)) 140 CO.1IRE. C. L. VII.ATE. IVISIONS IN THE Y LIPECTIO.	28 kg	11101(1) = 1.0/(x(2)-x(1))	JCK24400
DELAI(1)=1.0/(X(1+1)-A(1-1)) DELAI(1)=1.0/(X(1+1)-A(1))  140 CO.:1110.			ICK 24500
DAPLICIATION (XCR-1)-107 (XCR-1)  100 CONTINE  C			
Ind Confirm.  Late Co	*9*7	UELAI(1)=1.07(K:1+1)+A(1-1))	2000
140 COLLINE.  LEAVILLATE INTERIORS IN THE Y LIPECTION	4.7	0/1/2(1/1/1/1/1/2/1/2/1/1/2/1/2/1/2/1/2/1	JCK + 700
Comment ELEVILATE LIVISIONS IN THE Y LIPECTTO	• 747		JCK24800
CHANNEL WILLY INTERIOR IN THE Y LIPECTION	407		JCK24900
** O - 11 - 12 - 12 - 12 - 12 - 12 - 12 -		1	TOR SE DOU
	• • • • • • • • • • • • • • • • • • • •		2223

JCK2500 JCK25500 JCK25500 JCK25500 JCK25500 JCK25000 JCK25000	LCK22400 LCK26500 LCK26500 LCK27100 LCK27100 LCK27100 LCK27100	LCK2750 LCK2750 LCK27770 LCK277770 LCK277770 LCK27770 LCK2770 LCK2770 LCK2770 LCK2770 LCK2770 LCK2770 LCK2770	10000000000000000000000000000000000000
	220 CONTINUE  DO 240 [=1.LLM CHK = K(1+1)-K(1) IF (CHK .LT. KAIN) XMIN = CHK 246 CONTINUE DT = DILMINANMIN/XMAX IF (LL .6T. 3) DT = DT-5021 MAITE (6.2000) WRITE (6.2001) WRITE (6.2001) INTE (6.2001) INTE (6.2001) INTE (6.2001) INTE (6.2001) INTE (6.2001) INTERNATIONALISKIP IF (ISKIP(1) .E0. 0) 60 TO 300 C OUTPUT INITIAL MINDFIELD, MEIGHT AND TERMAIN DATA	K = 15PS(1) LINES = 60 DO 300 JELL DO 300 ZELL DO 300	M
334353633			

00472 5.00 00473 5.10 00473 5.10 00473 5.10 00574 5.10 00501 5.10 00501 5.10 00504 5.10 00504 5.10 00501 5.20 00501 5.20	IS+ = IS++1 IC-1 = ICN++1 IF   1CNT - LT,   (C-1T)   GC TO 4.40 IC-11 = 1.4F5	LCK31000 LCK31100 LCK31200 LCK31300
	IC.1 = ICNT+1 IF IICNT -LT, (C1T) 6C TO 4.10 IC.1 = 0 ***********************************	1000 1000 1000 1000 1000 1000 1000 100
	15.15 - 10.17 1 10.17 60 TO 4.10 10.17 = 0 MMA. = -1.185	1000 1000 1000 1000 1000 1000 1000 100
	IF 11CaT all incit) 60 TO 440 ICAT = 1.0FE	JCK31200 JCK31400 JCK31400
	1C:41 = 0	JCK31300 JCK31400
	X NA A A A A A A A A A A A A A A A A A A	JCK31400
		00410470
		C C U F 2 9
	MIOCI+1=1 1000	ついていいいい
	PKR = 1.0/PLo(1)	JCK 31600
		2017430
	IF CHK "GT" XHAX) XMAX II CHK	JCK31800
	420 COLT 1885	ALK AS ODO
		20000
	IF (JL .61. 3) DT = DT. SQ21	JCK32100
	# 0412450 # 64	JUNE 1990
		0010100
		ついとうとうつ
00513 324*		JCK 32400
	IF (IFLAG .GT. 0) GC TO 700	JCK32500
		1042400
1070	•	200000000000000000000000000000000000000
		JCK 32 / 30
60514 3284		• JCK32800
0051a 3294	Casses 6010 POINT CALCULATION LOOP, esses	JCK 32900
		000
	: : : : :	
***** 91Caa		DD155XD7
	JP12   Je101#+1+16L2	JCK 33200
		CC 2 2 200
2000 99000		
	JIS = JPIZ=IDIM	20426X20
526 3354	217+N1071 H 617	JCK33500
	11 × 130	100417
		コランクウィンク
	DAM II CAPC(C-1)	CK 33800
130 A300	DO 500 1=2.LLM	JCK 33900
	5101	AC ALOOP
	4 14 5 1 1 4 5 1 1 4 5 1 1 1 4 5 1 1 1 4 5 1 1 1 1	
		20142470
535 3420	1250 H C12041	JCK 34200
		CK AL ADD
		00448
-	PLO = PLUIDIZI	2044010
00537 345*	C TEST FOR STABLE SULUTION. IF NOT-BRANCH	JCK 34500
*0*7 0*50	IF (IFLAG .GT. 0) GO TO 520	JCK34600
	IF (PLH .GT. 20004.0) 60 TO 460	JCK 34 700
	70 440	ICK NA AOD
	TOTAL POP	2068CY
	60 10 520	CCF 35000
3510	+80 CO-11110E	JCK35100
		JCK 35200
	PACTATIONO CALL DE TATIONS	
	INC. MODEL ENGLISHED TOTAL	
2000		00000000
		JCK 35600
00551 357+	VL3 = VL3(J12)	JCK35700
1552	CELES 11 CL 6( L12+1)	JCK 35800
1501		JCK 3590u
		10 4 4 0 0 0
Ť		
	18	JC 7 30 1 00
0556 362+	"	JCK 36200
	PLK = PL0(J12+1)	JCK 36300
		CHANA
•	٠	
04561 3034	VLYP = VLG(JP12)	してようもうじい

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		A57 II CLX17:00X2X1	JCK42400
****		ı	
		11	JCK42500
		11	JCK42600
0uo57 7.		н	JCK#2700
00000		A40 = (FLISEFLXA) + 0.0.	JCK 42800
		FM = DAF1(1-1)*((A14-A28+G2*(A16-A29))+A40*(A39-A78))+A56*(A6+A30-JCK42900	JCK42900
		_	JCK43000
		11	JCK43100
200000 COOM		* 1	JCK43200
Man A		10 1 1 20 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	JCK43300
		٠ ٦	00464300
			JCK#3300
			JCK#3000
		11	
		A3.5 = FLYPePLYP	JCK43900
			JCK44000
			JCK44100
000/2 000/2 000/2 000/2		AUC II VITABLE III	JCK44200
		N 10 V 10	007 ## 200
_		f 11	
		GH = A54+(A25+A18-A31)+DYM+((A37-A41+G2+(A16-A42))+A23+(A39-A79))	CKERSON
00762 447		A54 II A54+A54	CK##700
		A5 = A12-A23	CK##800
		H	JCK44900
**** FD/ 20		AD/ 11 AD6+AD6	JCK45000
		074-174 H +04	JCK45100
•	U	FINST UNDER TEAM OF U VELOCITY COMPONENT	
		31 = Die(A55e(A5+62*A58)+A57*A6+A26*A1*A24)	JCK45400
		A71 = VLXTP-VLXPYR	JCK45500
		••	JCK45600
			JCK45700
-		ALG. T. (CLAY-LULG) # (A. 1. + A. 1. + A. 2. + (A. 1. + A. 2.	JCK45800
***** ********************************	ر	TAKE (* SECURA) SKOLE LEPS OF U VELOCITY COMPONENT	JCK47900
		11)	JCK46100
	v		10K46400
		.52 : 11 (A11+48)*F1: +A44+(A40+0.5*(A4+AR*A8))	CKEPED
-		**	JCK46500
_		11	JCK46600
_		11 1	JCK4670U
00/24 4084		*/ '	JCK46800
_			JCK 46900
	٠.		000/14/00
	,	5 ,	JCK4 7100
		000C=7+[0x]-1040[F]-4054[14V+00-17V+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0	JCK47800
		Lett. 114/13)	JCK47400
		401 = 1-Laty 1: +PLKP 1:	JCK47500
		"	JCK47600
50/32 -1/10		"	JCK+7700
		Ħ	JC# 4780U
0./24 -/.0		132 = DTF+(FEN-VL) ()+154+()-7+174)	JCK47906

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	13) VHOLOITY COMPONENT  13 Z ( (A42-A2) - (A54-A51-0LXPYM-A52-0LXFW-62* (A54-A20-PLYM-2K (A21-A52) - CA4-A20-PLYM-2K (A21-A52) - CA5-A21-PLYM-62* (A54-A51-0LXPYM-A52-CLXFW-62* (A54-A51-0LXPYM-A52-CLXFW-62* (A54-A51-0LXPYM-A52-CLXFW-62* (A54-A51-0LXPYM-A52-CLXFW-62* (A54-A51-0LXPYM-A52-A41)  A70 = A36-A42  A71 = A36-A42  A62 = A36-A42  A64	LCKK 69 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	13.5.7 = 0.5501(ASSTAND) = 0.54510(LKPYH-ASS20(LKYH-626.461-6.5.) A70 = A36-A41 A40 =	######################################
	110-178 (A46-A20)+A23-A54* (A24+A76-A80))+(A11+A53)*um-(A66+A20*PLY; A21-A32) A22-A42 A36-Z42 A36-Z42 A36-Z42 A36-Z42 A36-Z42 A36-Z432 FIRST URUER TERN UF V VELOCITY COMPONENT C1 = DT*(A55-A25+A57*(A70+62*A68)+A26-A63+A68)+A56*(12 T) PART G5 SECOND ORLEP TERN OF V VELOVITY COMPONENT C2 = D***(A*A*PP-VLXPPH-VLXPPH*PAPT)*A62*(A27-A63+A68)+A56*(1A74*A76*A69)+A33*A76*A76*A76*A76*A76*A76*A76*A76*A76*A76	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	A13-0.32. A2 = A36-44. A4 = E. A36-44. A4 =	XXX XXX XXX XXX XXX XXX XXX XXX XXX XX
	A70 = A36-A41 A40 = A36-A41 A40 = A43-A42 A40 = A43-A79 FIRST URUER TERM OF V VELOCITY COMPONENT CI = DT0(A55-A25-A57*(A70+G2*A64)+A26+A26+A5 EPRI OF SECONO ORLEP TERM OF V VELOVITY COMPONENT C2P = C.50((VLXPPLXPT)+A45)+A11)+(DXPI(1)+(A34-A46))+A33-A25-A14A+A64)+A11)+(DXPI(1)+(A34-A46))+A33-A25-A14A+A64)+A11)+(DXPI(1)+(A34-A46))+A33-A25-A14A+A11)+A11)+A11-A11-A11-A11-A11-A11-A11-A11-A11-A11	######################################
	Abb = A30-A92 Abb = A30-A92 FIRST URUER TERM OF V VELOCITY COMPONENT C1 = DTe(A558A25+A57*(A70+G2*A68)+A26*A26*A5 FIRST URUER TERM OF V VELOVITY COMPONENT C2P = 0.5e((WLXP=PLNPI*A+B5)*FP+(A10+A11)*(DXPI(I))*(A54-A98)+A36*(A11XP*VLXYPFPLXYPI*A+A11+A11+A10+G2*(A27-A61+A68))+A33*A1XP*VLXYPP-PLXYPI*A+A11+A11+A10*(DXPI(I))*(A40-A8*VLXM)+A36*(A27-A64-A8*VLXM)+A410*(A175-A76*A69))-(A34*A11)*FM+(A11+A10)*(DXPI(I)-1)*(A40-A8*VLXM)+A36*(A27-A64-A8*VLXM)+A410*(A175-A64-A8*VLXM)+A410*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A176-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A11)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A111)*(A175-A8*A11	######################################
	A69 = A43-A79 FIRST URUER TERM OF V VELOCITY COMPONENT C1 = OT 6155-615-A51-A59 PART OF 626-A681-A26-A681-A26-A681-A681-A681-A681-A681-A681-A681-A68	######################################
	FIRST URDER TERM OF VELOCITY COMPONENT C1 = DTe(A55eA25eA57e(A70+G2eA68)+A26eA2eA69) C2 = C1 = C1 = (C1 + C2) + C2 + C4	######################################
	C1 = DTG(ASSALZS+ASSA(ATC-ASSALZS+AS) PART OF SECOND ORLEP TERM OF V VELOVITY COMPONENT C2 = C2 = C3 = (VLYEP-PLAP) + ASSAC +	######################################
	PART OF SECOND ORLEP TERM OF VELOVITY COMPONENT C2P = 0.5e(IVLXP-PLXPT-VLXPYM-PXPYM +A70+62-(A27-A61+A68)+A35-(A28-A86)+A35-(A28-A86)+A35-(A28-A86)+A35-(A28-A86)+A35-(A38-A86)+A35-(A38-A86)+A33-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38-A86)+A36-(A38	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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	PART OF SECOND ONDER TERM OF V VELOCITY COMPONENT CER = 0.50(1045-AB0VLXN-0FLXNI)*** CER = 0.50(1045-AB0VLXN-0FLXNI)*** SACORDON ONDER TERM OF V VELOCITY COMPONENT CANDON SECOND ONDER TERM OF V VELOCITY COMPONENT CANDON SACORDON ONDER TERM OF V VELOCITY COMPONENT CANDON SECOND ONDER TERM CANDON SECOND ONDER SECOND S	CA SO
	CZM = 0.5e((A45+VLXN-PLXHI)eFN+(A11+A4)e(DXPI(1-1)e(A44-A8eVLXN)+154e(A76+VLXHPP-VLXHYP-PLXHI)eFN+(A11+A4)e(DXPI(1-1)e(A44-A86-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VLXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHXHYP-VXHYP-VXHXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHYP-VXHXHXHXHXHXHXHXHXHXHXHXHXHXHXHXHXHXHXH	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
	156*(470*VLXMYP*VLXMYP*PXMYPI-VLXYM*VLXYM*G2*(456*465).  240*A65*A65*A62*A60))-(A6*A35*PLXMI)*A4*)  A40 = A45*A45  A40 = A45*A45  PANT OF SECOND ORLEH TERM OF V VELOCITY COMPONENT  C3* = (A7*A45)*GP*A15*(A55*O.5*(A66*A50*A50))  C4* = (A7*A45)*GP*A15*(A55*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*(A25*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*(A25*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*(A25*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*(A25*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*O.5*(A25*O.5*(A66*A50*A50))  C4* = (A45*A45)*GP*A15*O.5*(A25*O.5*O.5*O.5*O.5*O.5*O.5*O.5*O.5*O.5*O.	CCC
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	PANT OF SECOND ONLEH TERM OF V VELOCITY COMPONENT CLA = (A7+A45)=6P+A15=(A65-0.5=(A7+A66)) PANT OF SECOND ONLER TERM OF V VELOCITY COMPONENT CLA = (A45+A50)=6A+A32=(A2)-0.5=(A66+A50+A50)) A40	A
	CDF E (A7*A45) #6P*A156(A5*G*C) #CCCTTY COMPONENT CDF E (A7*A45) #6P*A156(A5*G*C) #CCCTTY COMPONENT CDF E (A5*A55) #6P*A32*(A2*G*C) #CCCTTY COMPONENT CDF E (A5*A56) #6M*A32*(A2*G*C) #CCCTTY COMPONENT A40 E A55A467*A57*A559 U WELGCITY COMPONENT (**A*G*D) U WELGCITY COMPONENT WELG	77 77 77 77 77 77 77 77 77 77 77 77 77
	PART C RECORD ORDER 16RO-10.50(APATTA66)) PART C RECORD ORDER 16RO-10.50(APATTA66)) C3M E (AM5-ASO) -6M+A320(A23-0.50(A66+ASO0ASO)) AMB E ASSAMATASTASTASTO U WELGETY COMPONENT U WELGETY COMPONENT U WELGETY COMPONENT V WELGETY COMPONENT V WELGETY COMPONENT MAGILIS) = VLO(JI2)-C1+A90(A10(C2P-C2M)+A20(C3P-C3M)+6]+0DELY+A690(A80)) PMI IN THE LOWER LAYER PLU(JI3) = PLO(JI2)-DT+A60+A90(A10(FP-FM)+A20(GP-GM))	// / / / / / / / / / / / / / / / / / /
	CLM x (AMS-ASQ) = GM-A32e(A2)-0.5e(A66+A50eA50) AMP = ASS-A-A3-A51-A55 U WELGCITY COMPONENT \Lacity = CLO(J12)-B1+A9e(A1e(B2P-B2M)+A2e(B3P-B3M)+61eDELXI(I))-1 \Lacity = CLO(J12)-B1+A9e(A1e(B2P-B2M)+A2e(B3P-B3M)+61eDELXI(I))-1 \Lacity = CLO(J12)-C1+A9e(A1e(C2P-C2M)+A2e(C3P-C3M)+61eDELYeA69e1 \Lacity = CLOWER LAYER \Lacity = CLOWER LAYER \Lacity = CLOWER LAYER	ACK 1000000000000000000000000000000000000
	CAN E (ARBSANSO) = 6M+A32e(A23-0.5e(A66+A50eA50)) Ade	ACK 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	U WELDCITY COMPONENT  *L-4(J13) = ULG(J12)-B1+A9*(A1*)(B2P-B2M)+A2*(B3P-B3M)+G1*DELXI(I)*/ *L-4(J13) = ULG(J12)-B1+A9*(A1*)(B2P-B2M)+A2*(B3P-B3M)+G1*DELXI(I)*/ *V *LLDCITY COMPONENT *V *LLDCITY COMPONENT *VLG(J13) = VLG(J12)-C1+A9*(A1*(C2P-C2M)+A2*(C3P-C3M)+G1*DELY*A69*/ *PM IN THE LOWER LAYER *PL-4(J13) = PLG(J12)-D1*A60+A9*(A1*(FP-FM)+A2*(GP-GM))	CK 5000000000000000000000000000000000000
	\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\	77.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
	126-146) V VLLOCITY COMPORENT V VLLOCITY COMPORENT V VLOUIS) = VLOUI2)-C1+89e(A1e(C2P-C2M)+A2e(C3P-C3M)+61eDELYeA69e/A60113) = VLOUIS) = VLOUI2)-C1+89e(A1e(C2P-C2M)+A2e(C3P-C3M)+61eDELYeA69e/A0113) = PLOUI2)-DT+860+89e(A1e(FP-FM)+A2e(GP-GM))	
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01272	657*	2. PHTS IN X AXIS! = 1730 1 (NO. PNTS. IN Y AXIS) = 137
01272	556	35%, 48LK (MIN LAYER DEPIN)FB.5, LT.T (U MIND SPD COMPONENT) #JCK65500
01272	. 659	4. FB.4. " VLT (V MIND SPD COMPONENT) II. " PB.3/
01272	•094	55% PLT (LAYER HEIGHT) = F9.3 ISMOTH (FILTER STEP NO.) = . 13. JCK65700
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01275	6710	2006 FORMAT (AL-6x, T INDEX Y INDEX X CORDINATE Y COORDINATE WINJCK66R00
01275	6720	10 STEED DIRECTION LAYER MEIGHT TERRAIN MEIGHT. OKY. : GALCHEGOOD
01275	3	MFTERS/SEC) (DEGREES) 6X
01275		01.4870. (METERS) (METERS).
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91276	2	
01277		ZOGE FORMAT (*0*,5X****** PROBLES GROWING UNSTABLE: PROGRAM PRINTS JCK67400
01277		
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NO DIAGNOSTICS. END OF COMPILATION:

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ASL/45M 41MD FIELD TERRAIN ADJUSTMENT MODEL

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SUBKOUTINE OUTPI

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STOMAGE USEU: CUDE(1) GOGINI: OMTA(U) GOGOS7: HLANK COMMONIE) ULGGOG

EXTERIMAL MEFERENCES (BLOCK, MAME)

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		000015 2001F 000110 60L

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	51) 47	912 .pg. 13) AD 10 40	35TC1100
90120 320	WRITE	10   10   10   10   10   10   10   10	JOT01200
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00125 140	30 LALL 1	LALL (179AH (1011,22,7,-1,3,11)	104 Lu Tric
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PCM.11 M15C FOK 01UL-UD/J7/73-14;U3;29 (,0)

ENTRY POINT AUDING SUBMOUTING MISC STOMAGE USED: CODE(1) 0001261 DATA(0) UN00241 BLANK COMMON(2) 000000

EXTERIME REFERENCES (BLOCK - NAME)

0043 .4ERR35

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10 <b>00</b>	•		AMBH = 1.0LS	U0a1.035.
01100	*		00 50 It1.tLJL"	9000005
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57100	170		CONTRACTOR CANADA CONTRACTOR CONT	0041.35%
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DFUN.13 JUL-841. FOR B14-84/07/3-14:83:34 (,3)

ENTHY Popul nouses Sifferential Utila STORAGE USEJ! CULE(1) 0000501 DATA(0) 0000121 BLANK COMMON(2) 000000

EXTERNAL REFERENCES INLOCK, "IAME,

ATANZ SORT INCRM38

(BLOCK, TYPE, RELATIVE LOCATION, NAME) STORAGE ASSIGNMENT

DOOR R DOGOOO RAD 847NI #00000 0000 8648 R 000601 DIN

UVD00100 THIS SUBROUTINE CONVERTS THE U AND V COMPONENTS (X AND V) OF THE BING SPEED INTO WIND SPEED AND DIRECTION (X AND V)
DATA RAD/ST.29582/
UIR = 270.40-ATANZ(Y,X)+AAD
IF (DIR -64.00-ATANZ(Y,X)+AAD
IF (DIR -64.00-ATANZ(Y, SUBROUTINE UNDIRIX: Y) \*\*\*\*

NO DIAGNOSTICS. END OF COMPILATION

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ASL/HSMK AINU FIELD TERRAIN AUJUSTRENT HOLEL

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NBDCVS/FORD4	~		001454	2 040032	032	420040	
NFTVS/FOR	-						
NFTCHS/FORGA	-		061767			040132	
NCLOSS/FOko+	-		002143	2 040135		040163	
NadLKS/FORC4	-					1	
NUSSLS/FURO	~	1 002206					
NE.PUAS/FURUS	-	1 002323	0.12.55				
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NI DEKS/FÜRD*	4	1 005647		. 042673		042770	
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SYSSORLIUS. LEVEL 07-02 END OF COLLECTION - TIME 1..52 SECU:DS

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## APPENDIX C

## COMPUTER PROGRAM EXAMPLE PROBLEM OUTPUT LISTING

The computer program output listing as shown here has several pages of output omitted because of the volume of the listing. Only important sections have been retained.

The first page of output gives all of the program initial input data except for the x and y axes and terrain heights. Pages C-3 through C-18 (computer listing pages 25 to 40) give the initial wind field, layer height and terrain values up to a J index of 16. This part of the listing was included by setting ISKIP(1) equal to 1. Also, by setting ISKIP(4) = 1, the program has printed the wind speed and direction rather than the u and v components. Pages C-19 through C-34 (computer listing pages 66 to 81) show a printout of the 79th time step at 3 hours up to a J index of 16. The listing was produced by setting ISKIP(1) equal to 1. This part of the listing gives the x and y coordinates, the wind speed and direction, the layer height and the vorticity, where vorticity is a measure of the rotation of the wind in units of sec<sup>-1</sup>. Pages C-35 through C-50 (computer listing pages 107 through 122) printout of the 131st time step at 5 hours up to a J index of 16. This part of the listing has the same form as that given above for time step 79. This part of the listing also represents the final solution as the greatest time value input was 5 hours. Page C-51 (computer listing page 148) gives a summary of the contents of the output tape requested. The summary shows that output from two time steps (79 and 131) was desired and that both were written to tape. The listing then prints the time step and number of model seconds. The listing then shows the maximum index values of each output array and then gives the indices of the grid area of uniform spacing. Also, the summary shows the terrain height data were written to tape and the output tape was unit 1.

PAGE

ASEANSIAN LIND PITTED TENRANG AF JUSTIALITY OF FL

\*\*\*\* 11.15 LUTI UT 15 FADM THE WS'M ATM. FIELD TERRATN ALJUSTMENT MODEL \*\*\*\*

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,	-4	000.00000	3340000,000	9.8935	225.0000	2800.0000	.115620+04	
n	-	340040.000	3340000,000	9.8995	225.0000	2800.0000	.115620+04	
יכ	<b></b>	000000000000000000000000000000000000000	334000.000	9.4945	525.0000	2800.0000	.115820+04	
~	-	3~5000.000	334000000000	9.8395	2<5,0000	2800.0000	.115820+04	
9	-	240000,600	3340000.000	3608.6	225.0001	2800.0000	.115820+04	
. <b>n</b>	<b>~</b>	2+5000,000	334Canu 000	9.9093	225.0000	26.0.0000	.115820+04	
7	~	00000000	3346000.000	Se66.4	225.0000	2801.0000	.115820+04	
1	-4	325240.000	33+6600,000	5.00.0	255.0300	2800.0000	.115620+04	
75	<b>→</b>	300000.000	3340000,000	9.3995	225.0000	2800.0000	.115620+04	
3	<b>-</b>	JoS040.000	3340000.000	9.895	225.0000	2800.0000	.115620+04	
2		570000.000	3340000.000	9.8995	225.0000	2800.0000	.115820+04	
cŢ	-	375000.000	3346600.000	9° 4045	225.0000	2800.0000	.115820+04	
2	-	3~6060.000	3340003.000	9.8295	225.0000	2800.0000	.115920+04	
17	-	25200.000	3346000.000	9.3045	225.0000	2800.0000	.115820+04	
10	4	3-1000.000	3346506.000	9.8935	225.0000	2800.0000	.115820+04	
77	-	5950u0.000	33401.00.000	9,4935	225.0000	2800.0000	.115820+04	
Š	-	300.03003+	3340000.000	9.3995	225.0000	2800.0000	.115820+04	
<b>5</b> 7	~	405000.000	3345000.000	9.3945	225.0000	2800.0000	.115820+0*	
2		410000.000	3348000,000	6.9995	225.0000	2800.0000	.115820+04	
3	4	415000.000	33*0000	9.8995	22>.0000	2800.0000	.115620+04	
*	-	120000.000	33460000000	9.4995	225.0000	2800.0400	.115820+04	
Ç,	<b>-</b>	~256J0.060	33466 กบ. 000	9,6335	225.0000	2800.0000	.115820+04	
3	-	\$ 200c0 ecc	3340-03.000	4.69.5	225.0000	2800.0000	.115820+04	
17	-	+35000.000	33435.000		\$45.0000	2800.0000	.115820+04	
3	-4	**00000	33*00000	9. 9.5	225.0009	2800.0000	.115820+04	
6.7	-1	***50.0.00	3341750.000	9, 1095	223.0000	2800.0030	.115820+04	
3	•	1100.01001	3340704,000	9.4035	225.0000	2840.0000	.115820+04	
3	<b>-</b>	4550cF. UUG	3347-1-1000	5654.6	225.0900	2800.0000	.115620+04	
35	· <b>4</b>	300.00.000+	3340(00,000)	St 05.8	545.0000	2800.0000	. 15820+04	
3	~	4c50a0.uuc	33401 00.000	0.000.00	423.000n	2600.0000	.115420+04	
4		173000.00€	3341010,000	9.4945	425.UJGP	2600.0000	.115620+04	
7	-4	~750vn.0vc	33400.00.000	5608.6	,42.030A	2800.0000	.115620+04	
3,		2.0000° 4	53+0.F.U.F8	3° 3045	223.400A	2800.0000	.115820+04	
7,7	-	300.0004	334C- 07.04CC	9. 4945	<23.00Un	2860.0000	.115820+04	
3	4	310Gv6.00G	3343074,000	9. 10.35	222.0300	2800.0000	.115820+04	
4,4	-	500000000	33400 00 1000	€6.01.6	242.090ñ	2800.0000	.115820+04	
> *	-	ລປິດປິດປິດປິດປິດ	32*3000.000	6. 60° 6	430.600ª	<b>28</b> 00.000€	.115620+04	
	-	Paleun dar	334c+ 40, 901	( f u u d )	<<>.000	2800.0000	.115620+nw	

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Thu !	1 11 X	C. C. Maria L. A. C.	A CLASSIFICATE	CTES COFEE	O TELE OF TON	***************************************	TEBBA 111 ME 1614
-		(LETERS)		(METERS/SEC)	(DEGREES)	(METCRS)	(METERS)
•	2	1,0000.000	3420000.000	9.39%	225.0000	2806.0000	.115820+04
J	~	120000-000	34 6000,000	3608.6	225.0000	2800.0000	115820+04
•	~	200000.000	3440000.000	9.89%	225.0000	2800.0000	.115620+04
	~	3000000	342000,000	9.995	225.0000	2600.0000	.115620+04
3	-,	3.00.00.00.0	3421000.000	9.995	225.0000	2500.0000	.115620+04
3	~	300.00000	34 <jun. 000<="" td=""><td>9.4945</td><td>225.0000</td><td>2800.0000</td><td>.115820+04</td></jun.>	9.4945	225.0000	2800.0000	.115820+04
7	٠,	0.5000.300	342000,000	9606.4	743,0000	2800.0000	.115820+04
د.	~•	3.00000.000	344JU06.000	9.8345	225.0000	2800.0000	.115620+04
,	~	345000.000	3440000.000	9.8795	225.0000	2800.0000	.115820+04
.,	~	330.000000	34201.00.000	9.995	245.0000	2864-0000	.115620+04
:1	~	0.55600.000	3420000.000	9.9945	225.0000	2860.0000	.115820+04
1	~	300000-000	3440000	9,3945	425.0000	2800.0000	.115820+04
27	~	34.5000.000	342660.000	9.895	225.000n	2860.0000	.115620+04
:	~	375060.000	3420,03.000	3608.6	225.0000	2800.0000	.115820+04
1	~	J750u0.600	5420cfiv.000	9.4095	225,0000	2800.0000	.115820+04
10	~	000.00000	3440100.000	9.8945	225.0000	2800.0000	.115820+04
17	N	205000.000	34<0000,000	3606.6	755.0000	2800.0000	.115620+04
70	~	5900c0.	3420000,000	9.8935	752.0000	2800-0000	.115620+04
1	<b>C)</b>	JY50c0.043	3420000.000	576E.5	425.0000	2800.0000	.115620+04
59	~	4-0000.000	34×61 00.000	3606.6	225.0000	2800.0000	.115820+04
47	~	+020c0.00n	3420103.000	9.8935	225.6000	2860.0000	.115620+04
4	<b>~</b> 1	+100-00-001	3420f nu.000	9.8935	225,0000	2800-0000	.115820+04
2	~	4.5000.tu	3446100.000	36ch.6	225.0000	2800.0000	.115820+04
;	~	000.000.1	3420f nJ.000	86c: 6	£25.0000	2800.0000	.115620+04
7	~	~.5000.00ª	34<66,00,000	5.4cg.6	225.0000	2800.0000	.115620+04
1	~	1500cc.00c	34400000000	J. 1095	425.0000	2800.0000	.115420+04
~	~	7.5000.000	34<6173,000	4.4995	752.0000	2800.0000	.115820+04
3	~	222-2200	342000000	5.4995	225.0000	2800.0000	.115620+0%
P.	ณ	320.0.00	3440504.000	9.8995	243.000n	28(0.0000	.115620+04
3	``	000.0L00c+	34c (11:64.00)	9, "095	242.0v0£	2800.0000	.115620+04
*	~1	130.00.000.00 to	344.U.fru . 000	5465.4	245.0000	28c0.000c	.115620*24
. \$	~	200000	344 UT C 000	5.464°	225.0000	2800.0000	.115628.34
3	7	300.0.030r	3420103.000	Stor.6	425.0000	2800.0000	.115620+04
\$	٧	4700.00.000	3450500.000	6.4998	752.0000	2800.0000	.115820+04
3.5	٧	-750v6-0un	34cc.000.000	SAUR'S	225.0000	2800.0000	.115820+04
*	~	000.0c00c+	34211000	9.3345	425.4000	2800.0000	.115920+04
7.	٠,	C10.0006.+	3446.00.000	36út 6	225.000A	2000.000	. 115820+04
<b>?</b>	~	J. C000.000	34401.00.000	9.3993	445.0000	2600.0000	.115620+04
40	~1	2.20cvb.0cc	3446.00.000	5.89%.	223.000A	28u0000	.115820+04
3	~		344.01.1.3.000	34.07.2	2<5.0000	2000.0000	.115e20+04
;	4	000.0001/	それならい いっぱんかん	CACA.2	£<5.0000	2800.000	.115620+04

PAGE

	TERRAIN HEIGHT		.115620+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115620+04	.115820+04	.115620+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+0*	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115820+04	.115620+04	.115020+04	.115820+04	.115820+04	.115820+04	.115820+04	115820+04	115820+04	1115820+04	115820+04	115820+04	115820+04	.115820+04	.115020+04
** INITIAL WIN' FIELL, LAYER METGMT, AND TEHRAIN MEIGHTS **	LAYER HEIGHT		2800.0000	2600.0000	2800.0000	2800.0000	28Cu.0000	28uu.0000	2800.0000	2860.0000	2800.0000	2800.0000	2800.0000	2000.0002	2600.0000	2800.0000	2860.0000	2600.0000	2800.0000	2600.0000	2000.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2600.0000	28cu.0600	2960.0000	2806.0000	2804.0000	2800.0000	2900.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0060	2800.0000	2800.0000
METGMT, AND TE	GIMECTION (JEGREES)		225.0000	225.0000	245.0000	455.000A	245.000A	245.0030	745.0000	243.0000	445.9304	245.0000	243.0000	4000.077	0000 ** **	00n0.cxx	222.0000	245.0466	00n0.c23	225.0000	225.0000	752.0000	225.0000	225.0000	225.0000	425.0000	245.0000	442.0000	225.0000	245.JUOA	225,3000	425.000A	242.0uUA	245.0000	465.0000	2<2.0000	223.0000	225.0000	222.0000	225.0000	245.0000,	225.0000	445.0600
FIELL, LAYER	KIND SPFED (METERS/SEC)		9.3345	9.8995	9.3015	9.59%5	9.4995	の下の下。ア	9.8995	5.000.5	5804.6	C. 30E. 3	4.8045	9.9095	J.プロイ・ア	9.4995	9.4045	4.1045	9. 4935	9.4795	9.4095	9.40+5	9.4995	4.8945	9.4995	ifca*6	2.3035	CF08.5	9.3945	SF04.6	9.4045	J. 89.35	9,3945	4. 1035	3405.6	いからだ。か	4. 1945	5.40×.4	6.439	9, 1945	3,400.6	9,495	9,007,4
- Inl'Inc wid	T COUNTINATE (METERS)		3500(00,000	35000000000	3540000,000	3500000.000	35000000000	3560000,000	35uunnu.000	35ucch2.000	3530003,000	35,000,000	3563000,000	35-0000,000	3500000.000	3500000	3544004.000	35,0000,000	3500000	35000000000	3500000.000	3540690, 100	350000,000	3500000,000	35000.00,000	3500000.000	350CC . 0.903	3500000	3500000	35600000	350000000000000000000000000000000000000	3500000	3344600,000	3500,000	350000000000000000000000000000000000000	35001.00,000	35JC:0,0.003	550U(1) 0. 503	35000000	350000000000	3500(1)0,000	35u(11/11.000	35000000
•	A COORDINATE	************	1.0000	100003.000	200000° 000	300000	2<00000.000	220000	000.00000	030.0300	2+5000.000	3,9000,000	J.5000.000	3c06c0.0c0	302000.000	270000.000	3.75060.000	220000.000	3~5000.000	000.000000	3.950ch . Und	4.00000.000	***5000.006	1,00.001	415000.000	4.7000.000	425003.000	+ 20000 000 t	4~5000.3ur	******	145000.000	1,0000	102000-000	300.53095	405000.000	-/7000.000	+75000.000	4,00000	300.0000	3.0000.000	330000.000	Cau-BudCir	コラウ・シェファファファファ
	Y INDEA		<b>~</b> '	2	•		•	~	7	•¬	~	~	~	~	n	•	•	^	~	<b>a</b>	~	~	~	n	•¬	•••	•••	7	•	7	<b>~</b>	~	<b>n</b>	~	~	~	3	•	~	'n	~	₹	•
	Link		•	v	9	,	n	3	~	٥	Þ	2	11	7	2	*	<u>.</u>	70	7.1	J.	7	3	77	7.	23	ž	Ç,	30	47	ş	٧,	<b>3</b>	7,	4	.}	ż	2	3	57	3	٠, در	;	;

12000000000000000000000000000000000000	Hute f Holta i	X CCOEDINAIE (AETERS)	(m.Tf.nS)	WIND STEED (TETENS/SEC)	(VEUREES)	LATER HEIGHT (METERS)	TEKRAIN HEIGHT (METERS)
Symple	7	1:06c0.3cc	35446 03.000	\$500 · 6	225.3000	7800.0000	.115820+04
5540 (10,000         9,8995         225,000         280,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995         225,000         2800,000           5540 (10,000         9,8995 <td>*</td> <td>720000</td> <td>3546.000.000</td> <td>y. 1395</td> <td>245.6000</td> <td>2860.0000</td> <td>.115A20+04</td>	*	720000	3546.000.000	y. 1395	245.6000	2860.0000	.115A20+04
State   10, 000   State   000   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   20	,	300.000000	35,406 56,000	6.045	225.0000	2800.0000	.115820+04
	*	270.00.00	35401 10.900	7. 1995	225.0000	2800.0000	117015+04
\$\$\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\end{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\	+	2<00000	3540760.000	3666.6	245.0000	2800.0000	.117613+04
######################################	*	777000.007	35401-00,000	9.39%	245.0000	2800.0000	*117911+0*
######################################	7	3.50u0.uvc	\$5.46+.00.60J	4.3045	225.0000	2800.0000	.118089+04
354444444000 9-8945 225-0000 2800-0000 3544449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 35444449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 354449 225-0000 2800-0000 354449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 3544449 225-0000 2800-0000 354449 225-0000 2800-0000 3544449 225-0000 2800-0000 354	•	240000.000	354 UT1. U. 000	9.4935	625.0000	2000.0000	.121397+04
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35.4Urnu.000 35.4Urnu.0000 35.4Urnu	•	200-60000	3540000.000	¥.495	625.0000	2800.0000	143689+04
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334.1 (54.000 9.1345 6.23.000 2804.0003 354.1 (54.000 9.1345 2.23.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.	•	Sagerages.	1541, 11, 000	7.6 t x . 6	445.400A	2800.0006	.124180+04
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254-17 0.000 9.4995 220.0000 2800.0000 2 0.4000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000 2 0.0000	,	200.1203c+	3540 46.900	5,4045	225.0000	286n.0000	.122614+04
23-47 Fe.CO3 9-4945 223-0000 2804-0003 57-47 Fe.CO3 9-3945 223-0000 2804-0003 57-57 Fe.CO3 9-3945 223-0000 2804-000 57-57 Fe.CO3 9-3945 273-0000 2804-000	,	330-1-064+	3540 7 44,000	C. 404.5	225,0000	2600.000	.121644+04
774.1 10.700 9.3995 425.0000 2800.0000 28.0000 6.340.0000 6.340.0000 28.00000 28.00000	•	746617.0041	2747 FL +C90	3404.6	225.000P	2800.0003	119772404
\$2407 0000 9-3995 223-0000 2604-0000	•	いつの・こののつつ	174.31.10.103	5, 4045	\$000.c22	28.0.0033	.115620+04
00000000000000000000000000000000000000	•	370.0037.2	47401 110,000	34ut • 5	223.0000	<8.0.000 × 8.000	.115526+04
	•	34.000000000000000000000000000000000000	660000000000000000000000000000000000000	Sec. 6	643.6400	25.0.000.0	115820+04

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	TERRAIN HEIGHT (METERS)		.115820+04	.115820+04	.117613+04	.118509+04	.118957+04	.119223+04	.124186+04	.131497+04	.157623+04	.199426+04	.132020+04	.123663+04	.119746+04	.121049+04	.122351+04	.123140+04	.123397+04	.124443+04	.129671+04	.131240+04	.136203+04	.137506+0#	.158411+04	.152660+04	.147174+04	.144560+04	.141946+04	*140386+0#	.137771+04	*139340+04	.135157+04	.128350+04	.141166+04	.139340+04	.126011+04	.124556+04	.121644+04	.115620+04	.115820+04	.115820+04
RRAIN HEIGHTS	LAYER HEIGHT (METERS)	2860.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2860.0000	2800.0000	2860.0000	2800.0000	2800.0000	2800.0000	2806.0000	28u0.0000	2800.000	280n.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2600.0000	2800.0000	2840.0u30	2800.0000	2800.0000	2800.000n	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0000	2800.0600	2860.0000	2800.0000	2866.0000
ALLO FIELDA LAYER METGHTA AND TERRAIN HEIGHTS	ELHECTION (DEGREES)	225.0000	75.0000	225.0000	245.0000	225.0000	225.0000	225.0000	225.0000	225.0000	225.0000	225.0000	525.0000	225.0000	225.0000	225.0000	225.0000	225.0000	225.0000	225.0000	225.0000	<b>425.0000</b>	425.0000	225.0000	225.0000	225.0000	225.0000	225.0000	420.000n	455.0000	223.000n	<25.0000	225.6000	223,6000	225.0000	225.JUUN	225.0000	225.0000	225.0000	425.000A	225.0600	225.0000
FIELD, LAYER	WIND SPEED (WITERS/SEC)	9.8995	9.9995	9.8935	9.4995	9.8995	9.4945	4.3995	9.8995	9.4995	9.8095	9.3995	9.89%	9.995	960H.4	9.899	9.8935	9.8935	9,9995	9.89yr	9.89.35	9.4945	366k.6	9,4995	9.4935	9.495	9.1935	9. A095	9.89.45	5F.04°5	5.80.25	C. 4040	9.40.35	6,60,6	3.4045	5.404.2	3602.6	9. 3995	6.1995	5665.4	9, 1995	30000
** INTIAL ABLO	T CUCHPANATE (MLTFHS)	3500603.000	3500000.000	3500000.000	3500000.000	356UC n J. n00	350000.000	356400.000	3500000	3560000	3500( nu. 000	356769.00	3500000,000	35011703.000	3500000	356000000000	356010,000	3560000.000	3560500.000	3,000,000	3560000	3500000,000	350000000000000000000000000000000000000	35000rJ.000	350600000000000000000000000000000000000	<b>55601.00.000</b>	35eu.n.J.000	1500.000	שטטייטיסכל	350000000000000000000000000000000000000	35000000	35,000 100,000	35cunf.c. 000	1500,00 noti	3500 to 3000	000.00.00000	35,00,10,000	35000000000	330000000000000000000000000000000000000	3500000	3500 tr 0.000	3500000
•	A COMPUTATE ( AFTERS)	100000.000	100000000	20000.00007	200000.000	3<00v6.600	220040.000	535000.060	340000.000	300.0002-0	300c0 • 000	325040.000	330000000	325600.000	3/00-0-0-0	J/5000.00u	3.0000.000	205000.000	3,30000,000	375000.000	**************************************	4.15000.000	700.000T+	415000.0u	+1.0000.000	** SOUG*000	4,000,000	+350c0.0cm	********	++50cc.uca	40000000000000000000000000000000000000	100.0000000000000000000000000000000000	+0000000+	4.50c0.du	. 20000 . Uol.	475000.0001	300.0000.+	000.00000	240606.000	3019606.006		7 istudings
	1 141_A		ın	'n	·n	'n	'n	r	הי	:n	'n	٠,	.ი	מי	ņ	"	:•	ጉ	'n	'n	1	۰,۰	· <b>Դ</b>	·r	•	ın	17	•	a	,	•	٥	n	r	7	2	a	•	1	د, ،	^	*23
•	X BLEA (	7	J	3	*	n	9		0	<b>.</b>	7.7	1	. 4	2	*	<b>4</b>	3	17	9	4	2	77	77	٤3	*	c?	şç	<b>5</b> .	ķ	ŗ	7	4	<b>,</b>	,,,	.,	-3	ş	'n	٠,	,	\$	7

44	JUNA	A CHORLESAT.	1 COUNTS INTE	WILL SPECE	PLINECTION	LAYEN INTIGHT	TERRATE METERAT
	J	(CITES)	(~LTE:.5)	(VETFRS/SEC)	(JEGREES)	(METERS)	(WETERS)
	٠٥	16.0000.000	3570000.000	24.00.0	223,0400	2860.0000	.115420404
	2	000.0001	3570060.000	Se 89 9	0000°577	2860.0000	
	1	5.000.0.000.2	357000.000	9.9993	223.0000	2800-0000	10.010011.
	9	2000000000	3,700,000	9.8935	445.0000	2800.0000	117011+00
•	n	3.0040.440	3574.00.000	9. 4095	225.0000	2800.0000	118957+06
•	,	3~4000.000	357 30114.000	2.0045	225.0000	2800.0000	40+0494F
~	.1	325040.000	357 350 . 000	9. 1045	445.0000	2860.0640	119790+04
•	•	ひつの。のつびじゃつ	357440.000	5.40A	245.0004	2800.0000	125580+04
•	n	J+504C . UJO	357000,0000	38 of . 5	223.0000	2800.0000	134110+04
-	٠,٦	000000000000000000000000000000000000000	357300.000	56.04.6	245.0000	2800.0000	164590+04
	9	225040.600	3570000,000	9.3995	445.0000	2600,0000	213360+04
_4	0	000.00000	35741 04.000	3609.6	225.0000	2800, 4000	13472040
•3	•	3~50~0.060	357010,000	2.69.45	2<2.6000	2800-0000	124070+04
•	o	370000.000	357400.000	57:00 A	245.0000	2800,0000	10000000
.3	c	375043.000	3574663.000	3664.6	75.0000	2800.6000	121020+04
	n	30,000000000000000000000000000000000000	3576602.000	9. 1095	225.0000	2800.0000	12340+04
	o	2:35000,000	3570663,009	2664.5	225.0000	2860.0000	124360+04
•	o	230000000000000000000000000000000000000	357600.000	9.895	445.000n	2860.0000	124660+04
	9	345040.000	3570000.000	9.9936	225.0000	2500.0000	125880+04
	9	020.0202+	357000.000	9.6995	225.0000	2000.0000	131980+04
		+15000.010	3574(0:0,000	9.3735	755,6400	280n.0000	.133810+04
	c	410000	357656,000	24.45	220,0000	2800.0000	.139600+04
	,	+15f.ut.00c	357000.000	£.20%.	752.0400	2800.0000	.141120+04
	,	10000°00°	3570, 00,000	3695.46	772.0000	2800.0060	.165510+04
_	2	5.500C.0cc	3570000000	4.4945	745.0u0A	2800.0000	.158800+04
_	3	*******	557JJnc.000	54 cr • 5	225.0000	2800.0000	.152400+04
_	:		557w.flv.000	5FC3 * F	220,000	<800.3000	149350+04
	•		357:000,000	7,01.02	225.0000	2866.0000	.146330+04
_	e	いっついいいいい	35701 07.000	ر پره بر پر در پره بر	0000°C27	2800.0000	10+001111
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	•	150000000	697.00 1014.	1404.E	6000°C22	2810.0000	.143260+04
	ز	+0000 J. 2000	21/3.01.000	40 40 4°	242.0000	2830.3630	. 135380+04
_	•	4050000	(00) (1) (7)	J. P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	76000c22	2800.3000	.130450+0#
_	•	100.01:0: ·	5:17:10.100	رپرده.پر	243.00un	2844.0446	.145390+04
	^	.,5000.000	34.761.00.00	7. 3.3 ye.	225.0000	2800.0000	.143260+04
_	•	TOUGHU- NOT	1770' (17.00°	9. 1935	225.0000	2800.000	.127710+04
	•	370.00.00	35,76.15,3,000	5. 40 J.	443.000A	2898.0000	.126011+04
	•	1106JJ.vu <sup>a</sup>	5.170. P. J. AOJ	3600.6	752.0000	2864.3000	122614+04
	•	300.003011	2570 00.03	4. 1935	42.000A	2850.0000	115620+04
	-	100.0000000	557cm6550000	1000	273,0400	28.0.0.0.00	10.000

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	A COOKULANI ( CTLIS)	r Countral ATE (mg lf nS)	VIII SPERT ("ILTERS/SEC)	DIMECTION (DE BREES)	LAYER HEIGHT (METERS)	TERRAIN HEIGHT (METERS)
İ		2575550.000	5605.4		2830.0000	,115620+04
	100000000	3575000.000	CF08*6	443.0000	2800.0000	.115820+04
	., JODOC . GO!.	55756110,000	Shoe of	225.0000	2800.0000	.115820+04
	3.000.0000	3575/11.0003	4.894,	225.0000	2800.0000	.117563+04
	りっしゅいつりょうしい	3>75100	360V°F	225.0JUA	2800.0000	.118434+04
	JC0.00000	35.75.00.000	3,895,0	225.0000	2800.0000	.118870+04
	いっちんいひ ひいい	25,75, 00,00	f,fica to	6000.622	2800.0003	.121620+04
	0.000.0000	35750.00.000	34°5,	222.0000	2800.0000	.149350+04
	3.5600.036	13751 nu.009	640° 6	225.0000	2800.0000	.140210+04
	300.00.00.0	35/25/00,000	,40° 4	225.0000	2800.0000	.170690+04
	375645.00	5573900.003	4.4935	443.0000	2800.0000	.225550+D4
	0.17tv().tc	35,756,000,000	9.3945	225.0600	28cn.000u	.140210+04
	3.56.33.000	25/31 14,000	9.8093	, c.,, u000	2800.0000	.123750+04
	3111 00.000	35750 0.000	3804.8	225.0000	28C0.00U0	.121920+04
	37.5630.000	3575 (10.00)	5,6c t 6	225.0000	2800.0000	.122230+04
	3,000,000	3575" 114.600	CROS F	225.0300	2800.0000	,123750+04
	30.0° 0.036.0°	31,751 00,000	7,609,7	743.000A	2860,0000	.124360+04
	いっぱんいう・じゅつ	35751110.003	3,4045	525.0000	2800-0000	.124660+04
	2,5000.000	3,75-11-1-6748	4.0945	225.0000	2600.0000	.124970+04
	ココラ・レココラ・ナ	3575660.0000	9, 1045	250.0000	2800.0000	.128020+04
	3.00 mm 3.00 mm	35/20000-000	3504.6	525.0000	2800.0000	.128630+04
	UND*073UT+	15/5060.0000	5653°6	225.0000	2800.0000	.133500+04
	** 5000 . JOO	357500,000	9. 8095	425.0000	2800.0000	.143870+04
	しついついつしょ	3575.400.000	9,60,15	225.000r	2800,0000	.166330+04
	300.003.300	\$5.75-00.000	38.07.6	225.0000	2800.0000	.159410+04
	TOD TO JO JO S	337500.000	٠, ٩٥٠٠	243.0000	2800,0000	.153310+04
	126.00.00	35.75.00.060	5601.6	245.630n	2800.000	.152400+04
	300000 10000	575 (1. J. P. 00)	Shor. A	C43.0000	2800.000	.146740+04
	100. 10 1C.	31.1 0000	Thur's	6600.423	2800.0000	.142040+D4
	1100 1001	(4)	9.E3.k	220,0000	2800.0000	.136550+04
	30.000 a 40.0	C01 7.	5.60£ .6	223.UUUA	2800.0000	.132590+04
	26, 20, 10, 10	( UU · · · · · · · · · · · · · · · · · ·	5.F. 0 = 6	443.000n	25.00.0000	.131060+04
	1, 16.0° aut.	600°0'1'1'1'	1,6LJ*6	しらつり・ハイン	2860.0000	.140210+04
	. 30 . 1 . 1	.575 C. 60J	CARL A	463.0060	2600.0002	.146300+04
	1, 6.1. C11 a U.C.	200 11: 11.1 20	3605.00	463.0000	2800.0000	.134110+04
	· 10.00.00	CO 10.00 CE 18	74.40	243,0000	2500.0000	.127410+04
	- 111 11	317.7 00, 600	7.600.6	1000.022	2800.0000	.125754+34
	1000 1000	311. 10.00	7604.4	7000.022	2800.00UC	.122443+94
	10.30 20.00	100.00	1.500 . V	223.4000	2600.0000	.115820+04
	,000	6.00 7.5.	7. 4. 4. 4.	. 6000 11/V	2806-3406	11552010
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Innex v INJ.	A X COORDINATE	Y CUS NII.ATE	With Speed	I) IMECTION	LAYER HEIGHT	TERRAIN HEIGHT
,   .			( * FIENS/SEC)	(UE OKEES)	(METERS)	(METERS)
•		000	CK-1-6	242.0000	7000-0007	112520+04
•			C6-20-6	243.000	2000.0002	*0+029CII*
<b>^</b>	200000 OCO	2360:12.000	50000	225.0000	2500.0000	.115820+04
-	230562	35ecf.a	9.69.5	KK3.0000	2800.3000	.117563+04
7	2.0000.Ju	356000 - 000	9.4995	225.0000	2800.0000	1110436404
TĐ	200000000000000000000000000000000000000	3560100.000	9.8995	225.0000	2840.0000	118870+08
~	235000.000	3500000000000	9.8935	225.0000	2800.0000	126020+04
7	3.00000	3504Cny, 600	9.3895	225.0000	200,0000	404010401
7	3700001	35m0f n.s. 000	57CB-6	9000 577	241.0.000	10+00444.
77	300 mg	3501603.090	\$50E.0	255.0000	2000-0002	1000000
	000 000000	3544000,0000	4704			407040776
7	000000		3000	100		10.0000000
7	196 6.000			0000 5.0	2000.000	**************************************
•	000.000000	3330000	SP. K. P.	272.0000	2800.0000	.121920+04
•	275050.000	3566060.000	6,96,6	225.0000	2800.0000	.134110+04
7	375040.040	3560000.000	676T.6	272.0000	26.00.0000	120090+04
0	003.00000	35euceu.000	9. 4995	225.0000	2800.0000	123440+04
٥	000.00000	35eu0nu.000	2000	225.0000	2800.0000	124050+04
·0	3700000	35600.00.000	9.6945	225,0000	2800.0000	12464040
T	355040.000	Sobuino. 000	9. 2045	225.0400	2800-0000	4040/04/04
æ	900000	35cufine.000	2.65.6	225.0000	2800.0000	124970404
7	4 15000.440	3546490.000	9,8995	225.0000	2Act . 0000	40-00-00-00-00-00-00-00-00-00-00-00-00-0
9	300-3004	3500.00.000	9.995	000m·42/		40400001
•	3000.0000	35.00.00.000	2000	90000000		10.000000000000000000000000000000000000
, -	000 0.007	The street and	00000	0000 577	2000:000	101007611
•	000000		CAC	0000-027	2000.000	* 1:00000+0+
•	425000.000	35001.30.000	7. 3995	725.000¢	2800.0000	*0+06:30+0#
~	333.02007	35006110.000	5.60E.6	245.0000	2000.0002	.152400+04
7	415515.00.000	3500000	3.3995	423.0000	2800.0600	.150570+04
-	11000cc	<b>5500000000000</b>	6600.6	223.0000	2860.0000	148740+04
•	4450-0-00	35aarn., 603	3.00° . 4	225.0000	2869.0000	146100+04
•	100000	350600.000	9.A345	0000.622	2800.0000	135940+04
~	330.0000	350000000000000000000000000000000000000	5606.8	222,0000	2800.0400	131470408
•	3000000	350000	4.804.	000000	0000-0086	1714000
•	7. C. O. S	A. A. C.	1000	0000		***************************************
•		200	00000	0000-637		*0 * 0 % / 6 T *
^	00.00000	000000000000000000000000000000000000000	0F70 .	243.0000	2000.0007	.143570+04
,	./56.00.000	350001-4-000	0.000.D	243.0300	2600.0000	.143260+04
<del>.</del>	430640.000	3506.10.000	4.4395	2<2.0000	2800.0000	.140210+04
-	440606.000	Soul fine foot	いかのか・カ	245.6000	2800.0030	.136726+0#
•	3,60.0.00	350.11 110,000	2868.8	225.0000	2800.0000	129757+04
•	いっつ・ひつ かりつつ	35 in 1'v. 000	30 CT - 3	223-0000	2600.0000	115620+04
~	gag-jagger:	1500 mm. Can	100c. 2	- CO - 100		
,						4040645

J. a.L.A	Y INDEX	A CHORLINAIE	T COUNTERE	VIIIO SPFEU	LIMECTION	LAYLH HEIGHT	TERRAIN HEIGHT
4	7	(,ETL/S)	(outens)	(MLTERS/SEC)	(DE JREES)	(METLRS)	(METERS)
•	~	100000000	2505000.000	9.995	225.0000	2000.0000	.115820+04
v	•	100000001	3545664.000	5.40AS	225.0000	2800.0000	.115820+04
7	7	200000.000	3505cf J. 980	7.8795	<b>25.0000</b>	2800.0000	.115820+04
*	~	J100J0.010	3505/: fin. 300	9°495	245.6000	2800.0000	.119306+04
` .a	*	3ごりじつりつつい	3505000.000	9.6935	225.0000	2800.0000	.121049+04
3	æ	00000000	35051 (1,1,000	Sep. 2	220,0000	<800.0000	.121920+04
`	^	3-5600.600	35056 60,000	4.8995	425.00UA	2800.0000	.129850+04
2	7	3,0000000	1505500,000	5664.6	2<>.0000	280v.000a	.134720+04
,	•	000°0000°0	1765(100,000)	9.8435	223.0000	2800.000	.140820+04
2	•	200000	3,4501.4,000	5666.6	425.0000	2801.0030	.170690+04
=	^	ション・0つのション・	3545( NC. 000	6.404,0	225.u00A	2800.0000	.146300+04
4	•	350000.000	3585640,000	4.4345	225.3000	2800.0000	.131670+04
:	<del>?</del>	390.00000	3505003,009	9.895	<b>225.0000</b>	2800.0000	.122830+04
<u>:</u>	•	37.0000.0000	35051 00.000	S466.4	243.0000	2800.0000	.120700+04
4	7	3/5010.000	35051 00.000	3666°6	225.6000	2860.0000	.122230+04
;	•	030.00000	354500, AD	9.495	25.*0000	2800.0000	.123140+04
4	*	370000.0000	3545000.000	9.8995	225.0000	2800.0000	.123750+04
-2	7	320000.0000	3505000.000	9.69.5	425.0000	2800.0000	.124970+04
4	•	0,0000000	3565i.nu.030	6.9945	423.0000	2800.0000	.134110+04
3	7	070.0000	3505(-1)11,000	9.1995	225.0000	2800.0000	.128320+04
2	~	+-50-0-000	35,51 711,000	36.4°6	225.0000	2800.0000	,125880+04
1	~	309-6706**	3502 "10.003	9. 1995	225.0000	2800.000	.129240+04
2	-	*********	35d5ullu, 933	2,6943	222.0000	2800.0000	.140210+04
:	•	4200c3.0c0	3505099.000	3768.6	425.0000	2800.0000	.162460+04
7	7	~_50c0.0vc	3505000.000	9. A995	455,000n	2800.0000	.152400+04
3	•	1.00.16.00.	3505"00.000	9695.6	223,0000	2800.0000	.146300+04
,,	7	4 15640.000	3505C Av. 000	4.8395	225.0000	2900.0000	.145090+04
3	•	300.0000++	3505-01,000	9°4995	4.25.0000	2800.0000	.146910+04
	•	110000.000	5505(n).NO)	3604.6	473.0000	28-0-0000	.145390+04
3	•	1.0000.000	370500.000	9.30.33	225.000C	Z800.0000	.142040+04
;	•	1,25(1,0),01(	35051 11.100	CKC#*6	223.0000	2800.0000	.138680+04
メ	7	100,000,000	350511.3.900	5 to 1 2	225.000A	2800.d000	.164590+04
;	•	300.000000	3505. Ca. 069	SF69.6	225.0000	2800.0000	.156360+04
ζ	~	10000000	33051 Pu.003	66.306	425.0000	2800.0000	.152400+04
3	•	* 150.0.0cc	3500 cm. 000	9.49.35	225.0000	Z800.0000	.153920+04
3	•	300.000pr	35050000	9.4045	225.buun	2860.0000	.146300+04
7	•	300.000.44	5°,d5:00.000	5606.4	225.0000	2800.0000	.141946+04
2	•	3,000,000	35.05.110.003	ر <i>لاح</i> ه . بو	425.0000	2860.0000	.153237+04
Ş	`	CANADADA.	5505, 60,000	4, 10.15	243.0000	2800.0000	.115820+04
?	•	いついいのいのいの	35,001 110,000	0.394°	425.u000	2860.0000	.115820+04

75.00	115620+04	115620+04	.115620+04	.126271+04	131497+04	.134110+04	1135940+04	. 1 32 A90 + 84	.139900+04	. 154640+04	.160626+04	113696404	.121920+04	.120400+04	.122530+04	.121620+04	. 122530+04	.124970+04	.152400+04	.128020+04	.125560+04	.125580+04	134110+04	.164590+04	.147630+04	.149350+04	152400+04	.151790+04	.152710+04	*0+0226*1*	.176780+04	.170c90+04	.153620+04	.164590+04	.170690+0	***************************************	.144560+04	.134980+04	415820+04	P> - A42344
LATER AR IGHT (METEAS)	2000.0000	2000.0002	2804.000	20ve , 3000	1000 · BUR	2840.000	28vn.0000	2000.0002	2806.0865	2000.000	2000. BOOK	28~0.000	2860.000	2600.0030	2800.0000	286n.0000	2800.000	2600.0000	2860.0000	28uu.0000	2800.0000	2800.0010	2600.0000	2800.0000	2800.0000	2800.0000	28C6.U400	2804.0000	2000.0000	2800.0000	28411.3000	28c0.00Cc	2800.0000	2800.0000	2811.0000	2800.1000	2800.0000	2800.0000	2840.0000	
JACTION IDEORCESI	223.0000	445.6000	225.0000	225.0000	443.4088	225.000m	223.0000	245.0436	243.6000	242.4000	243.000F	44.0000	243.000n	645.0360	752.0000	225.0000	425.0u0A	225.0000	225.0000	225.0000	425.0000	5.45.0000	2<0.000	445.0000	220,0000	3000 . 577	4×5.3000	263.000	2<5.0000	#000°C2"	242.U066	225.3000	425.0000	242.UU09	223.000A	445.4400	245.0000	223.0400	225.0000	
WILL SPEEU INETERS/SECI	676K-5	9.8995	9.83VS	5665°6	G. 4090	4.4735	4.993J	9. 11y5	9.3945	4.4945	¥. 3945	2002	9° 4095	3465.4	9.4795	3F0E.6	9.3095	3000°	9. R995	4.8345	9.3945	2, 20,45	40×40	5.40m.	3,404.0	4.4915	30,00	2, 32, 20	24.3742	7,665.6	いかのひゃか	CACH-A	3606.6	25.30 A	14. TO 34	C. 2043	2604.6	5660°5	9,57346	
Y CUOLITAL ATE (HETFICS)	359460.000	3540000.000	3572300.000	3540000.000	3540(00,000	35400.000	3546000,000	3546100,000	3540106.000	J5961.06.000	35%6700.000	35400000000	3540000000	359v( nv. 000	3540000,000	3544(11,000	359000 . 000	3546(00,030	35400000	35961110.000	354000 c 000	3590000	3590000.000	3792000	3550000.003	3546.444.000	1340CDC .000	35961 00.000	35 gut n.c. 003	3543(11,0,000	35×0100.000	3590-00.000	35.46( P. CO)	3545500,000	SSYUL PURSO	35,411110.000	35,925 1.0,000	35%(00,00,000	35%. 04. 000	
K CROKALIAIL 1 -ETLRS)	1-100.0.000	770000	200000000000000000000000000000000000000	2000000000	340000.000	0,00,0000	シングひょいゅいい		J:564A.04A	シアウ・ロングレイン	_ 15646.001	300000000	205624.040	270620.000	3750c0.0cc	2000000000	305000.000	170CL0.0cJ	3>2000.000	100 CO 10	405000.000	41.00cJ.	+1.5000.600	さいりいつ つりじ	ココウ・ファウシュナ	999° L 700'0"+	いらのいしょうがいき	-+300 CJ - CF	1100000000	1101010111	1000000	41001-1-0bc	12000 auct	1,00.00C/.	300.0064.	2,000,000	1,000,000,000	Jou-Biolic.	Don-GugCir	
4 1.1. A		7	- 7	3	7	7	::4	4.1	7	7	7.7	7	=	1,	-	3	7	7	7.	7	7	7	7	4	2	77	7	7	7	• •		-	7,	7	-	.,	7	;	•	
N Line.		4	,	•	a	9		•	,	1	1.	*	1		4	) 	11	2		3	7	77	,	*	7	2,	7	'n	2	3	7	4	7	5	çç	z	š	3	. 1	,

A CUGRUTNATE	<b>&gt;</b>	Cubratiate (mcTf isS)	WIND SPEZJ	DIMECTION (UEGREES)	LAYER HEIGHT (METERS)	TERRAIN HEIGHT (METERS)
1.00000.000		355500.000	4.A935	750000	2800.0000	.115820+04
100000000	-	3555(40,000	SF68.7	425.000A	2600,0000	.115620+04
200000-000		35951,06,000	2500.4	225.0000	2800.0000	.115820+04
30000000	-	3545000.000	9.4995	223.0000	2800.0000	.133237+04
250000-000		35%5606.000	9.0995	225.0000	2800.0000	.141946+04
3~0000.000	35.0	3595690.000	y. A995	245.6000	2840.0000	.146300+04
3,50,0,000	355	522000.000	3868.2	2<5.3000	2800.0000	.134110+04
3.400.000	300	3295000.000	2.4925	225.0060	2800.0000	.132890+04
0.000 noo	750	3595006.000	9.4095	225.0000	2800.0000	.138380+04
3700000	30.00	3595665.0000	7.3975	243.0400	2800.0000	.152710+04
155000.060	35	35%500.000	9.3995	225.0000	2800.0000	.213360+04
22000000000	354	2956.04.000	3.8935	225.0000	2600.0000	.152460+04
205040.000	300	3545000.000	9, 4995	225.00Un	2800.0000	.125660+04
273000.000	359	3595000.000	9,9935	225.0000	2600.0000	.120700+04
3750UL-U03	359	359500.000	9.8935	223.0000	2800.0000	.121310+04
200000000000000000000000000000000000000	328	35950n.000	9.8995	752.0000	2600.0000	.121620+04
3-50:0.060	32	35%5rac.000	9,4095	225.000n	2600.0000	. [22230+04
こうの・のつのしゃっ	35.5	3595600.000	9.8935	772.0000	2860.0000	.123440+04
392000000000000000000000000000000000000	25.5	3545100.000	4.8945	225.0000	2860.0000	.140210+04
474000,000	359	3595500,000	9.4945	225.0000	2800,0000	*0+06**
00000000	300	3345104.003	9.89.5	752.6000	2800.0000	.12.530+04
	200	000 000060	9.1995	443.0400	2800.0000	. 1241 50+04
110,00001+	3	000.007666	4° A 345	225.0000	2810.0030	.131060+0*
44.000000000000000000000000000000000000	400	33701/00.000	9.4995	0000.622	2600.0000	.140210+04
でつつ つつついづき	3.5	3545.00.000	9,3995	242.0000	2840.0000	*0+06 3-61.
330.0007	2,7	\$5.800 to 30.855	2,604.2	24.5.6000	2800.0000	.154B#C+O#
- 350:00 · 00u	25	595 110,000	4.8745	425.0000	2840.0000	.164590+04
*****	155	575 000.000	3665.6	273.0000	28(1).0000	.132890+04
345003.00	70	1950 000	9.6995	, co.0000	2840.000u	.163370+04
470.0.000	35.	355.000.000	56.0K.6	275.300n	2620.0002	.190500+0+
4,5000	300	3565. 110.000	9,4045	445.000n	2800.0003	.1 M2F80+04
222.0202	, ,	3450.00.000	74.30.45	V000.C77	2800.0000	.170690+04
379.00000		000 to 000	Shen * A	245.1.000	2844.0403	.145200+04
.706.30.44.1	3.5	\$5% >000	070c • 7	442.0000	2800.0000	.173740.04
. 150v0.vec	44.2	35,355 110.100	3664.6	<23.000n	2800.0000	.182880+04
4.50000000	353	35%50 AU. ABB	5661:06	445.6000	2860.0000	.152400+04
************	¥3.	1595.00.00A	Chuc'sh	220.0000	2600.0000	.147174+04
2000001,10	35.5	3595/10.000	36046	275.0000	2800.0000	.136723+04
220000000	35%	15x2: 0. 009	5,668.4	225.00QA	2800.0000	.115620+34
		2593/ ((), 600	4.40.43	225.000n	2800.000	.115F20+04
	7	ひかん いっこりのひ	ころとで・ス	,<>.0000	28uu.uu0	.115A20+04

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A COPCITATE	1 COU PAYANE	THE STEEL	LIMECTION	LAYER HEIGHT	TERRAIN HEIGHT
 ( ETel 5)	Int Tensi	1-1-1FRS/SEC)	(UL JREES)	(METckS)	(METERS)
1700-0-001	3500 35 CORE	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	225.0004	2000.0000	.115620+04
2,00000.2	36 00:00	1.1995	445.000A	2800.0000	.115620+04
000 . 0000c.	30000000000	9.499	245.0000	2600.0000	.115820+04
22900000	15461 at . 006	7.5047	423.000F	2800.0000	.126969+04
しゅうのうのうしゃ	346At 30. F00	C+07.4	445.000F	2800.0000	.132543+04
1.00 to 100 to	* au	4.804.	445.0000	2600.0000	.135330+04
3-9000-00	57,000 000	9.4043	245.0000	2800.0000	.132590+04
333.33BC+	156	9.879%	445.0u0A	2800.0000	.132690+04
113000.000	3664 D. 000	9.4045	425.000A	2800.0000	.136990+04
100000000	Je 441 70.000	576F . F	445.0000	2860.0000	.150570+04
こうつ つつりゅうべつ	3264.00.00	55ce.5	225.0000	2800.0000	. 182880+0*
300000.000	3 . 445. 34 . 600	5404.4	240.0000	2800.0000	.170690+04
J-3040 . BUC	3000000	5. HO45	243.6000	2800.0000	.134110+04
J706-0-680	350000000000000000000000000000000000000	2700.3	225.0000	2800.0000	121310+04
375606.000	3.461 00.000	9.998	75.0000	2800.0000	121310+04
300000000	344010.000	9.8995	245.0000	2800.0000	.121310+04
C-5000.000	3600 00.000	4.4045	222.0000	2800.0000	.121920+04
0.000cc	3666 00.000	9.8795	225.0000	2800.0000	.122230+04
3.450 0.000	36600000	5.40A5	425.000A	2800.0000	.123750+04
100.0100.	3600 to .000	9.89%	225.0000	28cn.0000	.122630+04
+-50-0.cc	3600000	3705.5	245.0000	2860.0000	.122830+04
\$ \$ 0000° tale	364000000000000000000000000000000000000	いかいかいか	225.0000	2800.0000	.124360+04
4156.33.006	Sheuf. Pu. 000	9.6775	225.0000	2600.0000	130450+04
+1000co+	35,000:110,000	25.64.2	255.0000	2800.0000	.143260+04
4.50.00.000	35 cut 11C . 1130	2402.0	225.0000	2800.0000	.170690+04
+ 100 ng . 0 nn	3660' for 000	0F66*6	240.0000	2Acu.0000	.182850+04
405000.000	3500, 190.000	6.000	225.0000	2800.0000	.182550+04
*******	36.0€.°••109	ひんひがん	225.000n	2800.0000	. 174100-04
4+56-0.000	35 401 1.4.000	1705 · 5	2<>.0000	2800.0000	.175470+04
COO. COOOF	3663116.000	C.F.C.R.F.	245.0000	2800.0002	.189190+04
Pageneral.	Sour an CON	C. T. C. 7 T.	245.0000	2800.0000	.207260+04
+10000	36 w.h. m.c. 000	7.04.C	2<5.6000	28(0.000	. 1 28940+04
10° 000 10°	200011 1 0.000	9.5945	225,0000	. Bun. 0000	.173740+04
4 /Ptcn.co.	3641, 114,000	CREWAS	275.U000	2800.0000	.176780+04
+750ut.out	Jour Willia, f.00	9.403·	755.0000	2800.0000	. : :6780+0*
410600.cc	34.607 = 5 + 0.00	36.05.06	2<5.0000	2800.0000	.156500+04
1,000-0000000	3-1001 6 6.00	3505.49	242.0000	2500.0000	.152413+04
2.06.3.46.3	34441 1.4. F.DU	350% 60	2<5.0000	2000.000	.140209+04
130000	South D. Pot	4.3045	225.0000	2800.0000	.115620+04
Can confiden	000 TO 11 TO 15	7, 62, 7	W 11.5	0000 01 <b>0</b> 0	44.040.0
				**************************************	*0.029677.

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\*\* INITIAL WITH FIELD! LAYER HEIGHT! AND TERRAIN HEIGHTS \*\*

	TERRAIN HEIGHT	(METERS)	115620+04	115820+04	.115820+04	.125574+04	.130451+04	.132896+04	.132590+04	.132590+04	.136070+04	.148740+04	.207260+04	.188980+04	.161540+04	.121310+04	.121310+04	.121620+04	.121620+04	.121920+04	.122230+04	.123440+04	.12344J+04	.124970+04	.129850+04	.140210+04	.158500+04	.207260+04	.195070+04	.201170+04	.195070+04	.193550+04	*204220+04	.185930+04	.1R2890+04	.181660+04	.195070+04	98120+04	.1A6363+04	.162849+04	.115820+04	.115826+04	
IGHIS **	·																			-																		•					
ID TERRAITS HE	IN LAYER HEIGHT	(METERS)	2800.0000	10 2800.0000	10 2800.0000		2800.0000			-	10 2800.0000	30 28U0.0000	2800,0000	3r 2800.0000	•	-		<b>2800.0300</b>				2800.000		30 2860.0000	3n 2806.0 <b>3</b> 00	<b>2860.000</b>	1n 28uu.0000	39 <b>28</b> 00.0300	10 < 4800.003n	.n 2800,0000			<b>JU 28</b> 00•3000	•		<b>2800,000</b> 0	30 2800.0000		JA <860.0000			307 2810.0000	00.00
WILL PARIOF LAYER THIGHT AND TERRAIN MEJORIN	PLACETION	) (CESHEES)	0000.022	_			225.0000		225.0000				-					222.0000		-	225.3000		225.0000	253.0000	225.UUDA	223.0u0A	0000.c22		U000°527	いりのの・ことさ						0000.652		445.000					
I I IELDI LAY	VIGN SPFED	(METERS/SLC)	3665.6	360H.6	9, 4995	9.3995	3463.4	9.495.	5.0095		4.4995	9.898	9.4945						9.49±0	3.6945	5468.6	Seun.6	C404.4	5°,64°,5	4.00y5	. 60°.9	4.3935	9°96.9	CF 64 . 49	CF 61 P	3×445	CKCB*K	5, 10 15	いが、 r * か	3, 04, 6	3, 39 J.	-		3406.4	3,99,95	3.30	4° 70 45	C. 475. C
TM TUTTER MT	f COULPINATE	(at TEKS)	36056 80.000	3605( 10,000	3645000.000	3002600,000	\$655 fee, 000	3605000.0000	36001 00.000	3605f.trg . 000	36,057,05,000	3605( no.600	3605173.000	\$600 DO 100 DO	3645/110,903	300000000000	35,550,000	3500-10-000	36451 (10.000	356575 J. 000	Jours: F J. 093	3005( 00.008	3605(fo.000	36c5' '. v. 000	3505079.000	3645506.000	56.05: nu.000	3605( Pu. 009	3505Frg.000	3500-110-006	75uc. I.u. (109	361511,3000	Sous Puelos	1605 1 1.009	3767,50	Spubla 1, 600	3500 U 000	3603-00-009	36000 11,000	3000 to 000	JAUDE IT JURING	3205711.65	
	A COORLIMIE	(FIEFS)	1000.0000	1.,00000.000	2200-0-00-2	J.00vU.006	340000.000	310000.000	300000000	2400000000	2+26+G-000	100.00.000	2020.000 COC	300000.000	3000.00g	100.0000	1756cn.vab	300000000	3::56:00.000	0,0000000	345633.000	000.00g0+	402606.000	+16000.000	+150.0.0uc	<b>*LOUGOOOP</b>	5000° - 00°	~33003.00f.	100.0c.00c	きゃいひょう・ ひがん	***Snd::	300.0000.	いいりゃいつびつ・	+c.00c.00i	+050vb.0v6	- 70000.000	+750vu-00i	100 · 1000 · +	300.00306.	Sac. Solder	<b>つかのこうのつこ</b>	つうしゅういりょう ひりん	
	Austral V	7	.3	***	13	. 13	-14	 	\$ <b>7</b>	••	13	1.5	3	77	7	2	<b>5</b>	7	13	7	2	1.5	13	13	77	.1	13	13	13	£1	7	7	7	<u>.</u> 4	7 4	£ ₹	1.1	7	7,	7	6.4	1,	
	X lines		•		.7	•	a	2	•	٥	ъ	7	<b>!</b>	4	7	•	;	2	17	70	7.	Ą	24	77	ç	<b>9</b> V	7	ŗ	77	2,	£,	ì	*	4	3	ż	3	.;	77	3		<b>,</b>	

Iruch J	r Labek	A CUCRUIMATE ( FTERS)	T COCHIPTATE	KIND SPEED (WETENS/SEC)	ULKCTION (UKUREES)	LAYER METGHT (METERS)	TEHRAIN HEIGHT (METERS)
4	**	1~000°000	36101-603.000	9.495	243.0600	2804.0000	115620+04
•	<b>~</b>	110010.000	36.10fru.000	9.9345	445.0000	2800.0000	.115620+04
,	=	20000000	3610Fav. 000	9.4935	425.0000	2800.0000	.115620+04
•	<b>:</b>	310.0001	3616"00.000	9.8995	245.0000	2800.0000	.124677+04
n	<b>:</b>	35000°000	36 tu: no 000	SPOR 6	425.000m	2800.0003	129406+04
•	-	シンのので かっしゅつ	361000000000	4.479.	245.0000	2000.0000	.131670+04
	-	1.50.0.00.	361660.0000	4. P945	<25.000n	2800.0000	132280+04
3	7	074000017	3646f Hu. 030	4, 1445	225.0000	2000.0000	133810+04
۰	**	3-5000.400	361C: NO.000	9.8945	450.000p	2800.0000	138998+04
2	:	000.0.000	361Uf 0.J. 000	9.8195	2<5.0000	2800.0000	.147220+04
:		Jt5000.000	35101111,000	9.6935	425.0600	2840.0000	.182890+04
4	=	<b>よっひじょひ。ひむの</b>	3610ft3.000	9.8933	250.000	2800.0000	.173740+04
2	-	205000.003	3613rnJ.000	2.99.5	425.0000	2800.0600	.128630+04
<b>:</b>	• 7	2/00:00:00/2	351000000000	C. 994.	225.0000	2800,0000	.120700+04
2	1	3,56,0,600	3640/63.000	3,404.6	245.0000	2600.0000	121010+04
•	*	300000000000000000000000000000000000000	3516:4.0.000	5.4935	4<5.0000	2800.0000	.121010+04
11	-	2000-2005	3616603.000	9.8935	225.0606	2800.0600	121620+04
2	-	こうり つつりしらこ	30101 NJ.COO	9.4935	645.0000	2800.0005	.122230+04
<b>.</b>	-	2350.0.0.0	3610500.000	9.89%5	752.0000	2800.0000	. 122530+04
2	*	000000	36101-00.000	4.4045	245.0000	28u0.0000	.122530+04
73	-	475620.603	361000.000	6.879	225.0000	2800.0000	, 122230+04
7	3	000.000u*	\$610Cnu.000	4.3035	223,0000	2800.0000	.125580+04
Ş	:	50J0.DUA	3610 0000	9.89%	225.0000	2800.0000	.130150+04
4	7	4 CON 00 600	3010:07.000	5.80K.2	0000.027	2860.0000	.142040+04
ŗ	-	1.50.0.00.	361.1.113.000	5866 B	555.000n	2800.0000	.1828A0+04
ţ	-	077.37007*	34.10(1), 0.000	9.8795	443.4UUA	2800.0062	.217630+04
;	-	* 15000.0cc	1611111000	4.8045	225.0000	2800.0000	.213970+04
ļ	=	000°C 0 JOH	2013:0.000	4.404.6	245.0000	2800.0000	.213350+04
,	:	101.0000	\$1.4 C. ( ) . 000	9.00 g	423.000A	28.0.0000	.216410+04
3	:	いっていっしょうしょ	31.101.10.000	5800°6	245.0000	2860.0000	.219460+04
÷	•	4 JAGU J. UUC	\$00°0' 10 4ct.	5643°5	243.0000	2860.0000	*0+06060%°
3	;	) of . 0 o 0 0 o	June 6 3 . 800	9.3945	222.0000	2000.0000	.190810+04
.3	:	-1.50×0.00°	Ja10' 1' J. 033	6.1093	543.0000	2800.0000	.210920+04
Ļ	;	100.2.001.	34111110001	4.67.35	245. UUDA	2800.0000	195070+04
4	•	0.50cC.U.D	35141.00 0000	3,400.2	445.0u0A	2860.0000	.189690+04
3	-7	+ Pout.du?	2647'04.09	J. 60 4 6	J000°C27	2800.0000	.18288u+0*
3	:	1,00000000	5244.0.000	'4 0 c ° f.	243.0000	2800.0000	173300+04
3	;	27000000	3510.110.000	1. KOH . K	2<0.0000	2800.0000	154140+04
ž	.4	JUN 01/10/10	3547: 10.630	3400.5	423.000n	2000.002	.115620+04
;	-	1,10.00.00.0	16.4 m Candal	1000	TOTAL STATE	AC.11. 00.00	10.00

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- 01 1102	
こうで しょいがしのつりにょ	
- 0" 1"10" 10" 0" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	
- 0" 1"10" 10" 0" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	
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TIPE TEXASIS NOCOSTACIST NO	

Linson also Filt	÷.	TERKHAIT MIGUSTNELL NO 1	יליין היט ליב				UATE 061173
			** Inlilat Win	" FIELD, LAYER HETOHT, AND		TERRAIN HEIGHTS	
A litter	Y JINJEA	A COPPLUENTS	I COC. I. I''ATE	WIND SPECE	PINECTION	LAYLK HETGHT	TERRAIN HEIGHT
7	7	(1. FTL.)53	(mCTF.NS)	("ETERS/SEC)	(UEOKEES)	(PETLIS)	(METERS)
4	1	1.0000.000	3615000,000	9, 3945	423.000n	2800.1000	.115820+04
٧.	7	300.00.00%	3615".00,000	7.9935	225.0000	28c0.0000	.115620+04
า	3; ,	206.306.635	36156.04.000	560+ °6	223.0000	2800.0000	.115620+04
<b>.</b>	2	0,00,000	36131 110.000	9,3995	225.0000	2900.0000	. 125923+04
n	3	200.00000	36156 nu.000	9,0495	2000.022	280u.0000	130974+04
۰ د	C .	משים מרשפיר	30137 04.003	J. 4045	225. UU00	2800.0000	.133500+04
	3:	300.0000	000.00.00	9.3945	225.0000	2800.0000	.133500+04
٥	7	3+3650.666	11.43011U. 000	36446	225.4000	2800.0000	.135030+04
۶,	57	072636.70	1545044.000	3668.6	225.0000	2800.0000	.141430+04
?	12	303.6000	200.0000000	3668.6	225.000n	7800.0000	.153010+04
	7	000.00000	St 15000.000	366U.6	225.0000	2800.0000	.225550+04
7	2	303.6200	3645-04.000	9. 1935	225,0000	2800.0000	.137160+04
7	<u>:</u>	2026,000	3445 000 000	9.4395	445.0000	2800.0000	121920+04
4	<b>1</b>	275020.000	3515-00.000	2408.4	425.000n	2800.0000	120700+04
1	51	000.00000	35431 11U. 000	9.8935	225.0000	2800,0000	121920+04
2	21	3,06,0,0,0	1613.00.030	5.40%.4	225.0000	2800,0000	121010+04
1.1	15	000.000000	301,000,000	9.8935	425.0000	2800, 4000	121310+04
9	51	374300.000	3623: 1. 0. 000	5608.2	445.0u0n	2800,0000	121920+04
7.7	2	335000.000	3515000.000	26.96.4	425.0000	2800.0000	122230+04
7	<b>1</b> 3	222.02002.*	3645000.000	9.19.15	225.0000	2800.0000	121920+04
77	15	405000.000	3615500.003	9.4045	225.0000	2800.0000	121920+04
3	Ļ	~100c0.0U	3045600.003	9, 30.35	225.0000	2940.0000	124360404
3	7	+150-0-000	3043000,030	3.4945	225.0009	2860.0000	127410+04
સં	cŢ	300.0007.2+	3515600.000	346345	425.000F	2800.0000	150880+04
Ç	ÇŢ	*** 50.00.00.0	36426 "0" 0003	9.8745	425.0000	2860.0000	195680+04
7	1,	4.06630.006	37434.Pu.fi00	9.3035	225.0000	<800.0000	.213360+04
<u>`</u>	12	goo-naction	30421.01 3UA	36.11395	243.0000	2800.0000	.237740+04
3	cı	900.0000++	30151700,000	CF 05. 6	<25.JUDD	2800.0000	*259C 90+0#
۲.	7	330.00011	300.31 16 178	7. 5045	425.JUDA	<b>∠8</b> 6000	.237740+04
ว	ÇŢ	700.00000	100 . U. J.	1,400.40	223.000	2810,0030	.219460+04
45	7	**************************************	1£ 101 00 000	CF 67 - 6	425.0000	2800.0000	.210310+04
*	CT	300.00000.	3545 6 J. 000	4. 3045	643.5000	2800.0000	.201170+04
2	1.3	0.5000 at	35431 10,000	3404.4	<25.00UA	2860.4000	192020+04
4	7	7,00,000,000	000.00.00400	4.3045	<25.05Un	2800.0000	.192020+04
4	3	* /! 0 Jin to to	\$ 24.7" 10.6.00	5.45A.4	243.0000	2800.0000	.180750+04
ş	7	40.000.000	ひつしょうこうすいつ	5. LO + 3	243.0000	2840.0000	182880+04
"	C.T	5.00 cm of the	30,450 000,000	5.401.4	2000.477	2800.0000	.173300+04
-3	7	300.0000°	3615t no. 000	3606.6	425.000n	2800.0000	.154140+04
3	ş	1. ひ・いつりょく	600.011.10.44F	360+ 36	223.0000,	2000.0000	.1156.20+04
?	:	000.000	Setting or Publ	14.00.7°	242.0000	2840.0000	.115820+04
;	1,	160000000	7,515,579,000	CKON-6	243.00UP	2800-0030	.115620+04

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A IINCA	Y Beder	A COORET JAKE	T COUPINITE	WETENS/SEC)	CIMECTION (DEWREES)	LAYER HEIGHT (METERS)	TERRAIN HEIGHT
· · · · · · · · · · · · · · · · · · ·	at to	Ludanda Ludanda	354 at 00.000	4768 G			
*	9	1300.000.000	3640500,000	5705.3	727.0000	2000-007	10+089411
1	10	2.60J0.000	3040660.900	9.3935	225,0000	2000,0000	10.00011
•	γį	240030.000	3626000,000	5466.4	225.000n	2806.0000	124677404
a	A:	320040.000	354iCnJ.009	3.4045	<25.0000	2840,0000	2.20405+04
9	10	010.00001	3640103.030	9.1995	<25.0000	2800.0000	131670+04
~	P of	1150-10-000	36400000000	9.4935	225.0000	2800.0000	134110+08
פ	J.	0.00.00.00.0	3620000	3666.6	425.0000	2800.0000	40+0000E
э.	Jo	333.020571	3643600.000	9.4295	225.0000	2800,0000	8C+0C4447
3	9	200 · ピアカピット	36401 00.000	9.893	25.0000	2600.000	100000000
1	9	3.50c0.600	364000,000	9.995	225.0000	2800,0000	231650+04
7	24	000000000000000000000000000000000000000	3640000.000	5,3995	<25.0000	2800,0000	134110+04
13	<del>-</del>	5.5000.000	3640100.000	366¢ *6	225,0000	2800.0000	121010+04
4	3	2,00,000,0	3640000,000	9.4995	225.0000	2600.0000	120090+04
3	97	275600.000	3620000.000	9.1945	425.0000	2800.0000	119480+04
2	9	200000000	3640000.000	9.8995	225.0000	2600.0000	121310+04
7.7	70	2020-010505	36<01.00.003	350K.2	225.0000	2000.0000	121310+04
9	2	770000	36<000000000000000000000000000000000000	9.8945	223.0000	2800.0000	121620+04
ş	9	330.0.0541	36<00 00.000	2004.0	225.0000	2806.0000	128020+04
77	2	4.0000.000	3620000.000	4.3095	225.0000	2800.0000	121920+04
27	1,	*~50cg*vc	36<0000,000	9.8735	445.6000	2600.0000	122230+04
7	9	4166u0.uco	3646000.009	9.843	223.0000	2600.0000	123750+04
3	1	000.0051.	3560000.000	9.4245	225.0000	2800.0000	128020+04
ž.	ŗ	022.02011	3624793.000	9. 99¥5	225.0000	2800.0000	201170+04
3	9	**5000.000	3644173.500	2.8995	243.0000	2840.0000	.223720+04
3	40	100000-000	35_2411.4.009	5,40,2	225.0000	2300.0000	.243840+0#
27	12	4.55cut. 20n	36441 00.000	3f ut . 6	225.UUON	2800.0000	.265180+04
2	01	440CJ0.00J	3646776.000	C.668.A	525.0000	2800.0000	.262130+04
<b>5</b> ,	3	++50+0.0cc	36.29r p	9.4045	443.0300	2860.0000	*234750+04
3	?	170.01011+	362(11.194.603	9. 90.43	443.0000	2800,0000	.225550+04
7	c]	**************************************	302001.0.000	9.1095	245.0u00	2800.0000	.215800+04
ᅻ	7	<b>うつじ・日ごひじつナ</b>	3621.1.1.0.000	3.7es -6	753.0000	2800.0000	.207260+04
ન	2	いつつ・ひっついつナ	36400Pu.000	9. JOH	245.0u0n	2800.000	.195070+04
į	9	000.000/+	ひのり・つい いつきゅう	566t 6	#000°C77	28.0.0000	204220+04
ņ	ទ	47500044000	Sacura, and	9.3035	<<>	28uu.000u	188980+04
3	67	シンフ・シュロロ・・・	364 of PU-1100	4. 1045	245.000n	2800.0800	173740+04
7	?	340-00-00-	しいりょういいりょく	Sted.6	423.0u00	2800.0060	165466+04
4	70	11.00.00.000	3040-110-PG0	S600.6	223.0000	2800.0000	146917+04
\$	Ιΰ	いっしゅつついしょって	Jéané.ne.099	4.A743	3000.623	2800.1000	.115e20+04
;	T:	20000-000	3'skul 110.009	SPUR. S	24:3.0030	28cu.00Cu	115820+04
÷	1:	7,6600.000	Sec. 07 10. 603	£.40%	222.0000	2800.0003	.115820+04

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W. 1. W. 24/154	7	Le e TestPossio AlcOUSTAGET	Elf no he				DATE 061173
		• * ELECT	IN LAND HETGITA	IN WHILE VOFICETTE AT	1 AT TIME STEP	79 ( 3.00568	10URS1 **
X Junes i	7 1.4.)[.k	A COCRDINATE (AETERS)	Y CUC: NILATE (Fit Tens)	WIND SPFED (NETEPS/SEC)	SIRECTION (PedKEES)	LAYER HEIGHT (METEMS)	VORTICITY
· · · · · · · · · · · · · · · · · · ·		1.000.11.600	340,00,000	9.7630	224.8071	2825.0465	.000000
•	-1	1.00.00.00.1	33+01.06 2009	9.77.36	224.8071	2825.0465	000000
•		20000000	33+C: 04.000	9.5300	224.7657	2832.5677	000000
,	7	2~00.00.00	33401-54.000	4.5644	4506.422	2838.6960	.000000
7	4	Jc0000.000	3340,110,000	8.56sa	4.25.5370	2830.4620	000000
3		130.00.00°	3340003,000	9.54o3	220,6107	2806.0741	000000
~		335000.00°	3346: 114.000	9.74.3	427,4931	2784.7942	.00000
9	4	3-40-0-00	33401113,600	9.7457	220.0651	2774.9345	200000.
•	4	Jen. 6284.0	334U^n3.930	Co. 740.0	<20.4426	2772.0087	000000
7		2000 JU	3340000.000	£084°5	2/6.4219	2781.4559	000000
7		500000000	534c/ 00.000	9.55pJ	227.9001	2803.3430	. 000000
:		22000000	3346:110.000	4445	C 4 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2823.2091	. 00000
3	-	200-600000	33% nr 000	5 4 5 4 5	267.6417	2824.1864	000000
*	٠.4	>/P0.0.0ut;	3343( 00,000	y. 4148	.27.2796	2823.548J	000000
7	4	3/5000.000	33401.1.0.000	こすいさ・プ		2815.4928	. 000000
27	_	200000000	33+0-1-0-00	9.5113	£ 27.3319	2804.5199	000000
1.1		309.706.1	3344500.000	9.5411		2801.3165	000000
<b>3</b>	.4	3,400,0,40,3	33461713.000	9.5421	257.4082	2793.1879	000000
7.0		225000.603	33401-80.000	C+24.4	227.4576	2764.6949	000000
3	-	600.000c+	534f. J.J. 000	7.76.4	227.4926	2777.4971	000000
73	4	4.50cc.	3341500,000	4.5216	4010.722	2771.7563	00000
7,7	-	100.00P	3346: 1	9.5524	227.4996	2706.4720	.000000
3	~	+156.A. uot	3346711.000	9.4°16	227.4124	2769.0853	000000
Ş	-	320.00.00	334600.033	9.9138	227.2111	2774.7496	000000
Ç	-	30000.000	434c( nc. C03	4.7504	220.9711	2763.0000	000000
સ	. •	100.00.300+	COU. D. S. D. P. C.	10°.4°	ZZ:0.9197	2769.7424	000000.
73	4		334c.10c.003	6129.6	4400.077	:792.0695	000000
3	-	103.400.	3340754.030	5.6103	240.8043	2792.9437	.00000
. 43		445645.049	3340. fre 600	3.5735	227.0148	2792.1805	000000
3	-	100.11.00c.	374CC 4 C+ 030	4.5405	227-1698	2791.1805	000000.
*	~	4.5469.003	3 14 U P	5.5122	<27.3301	2790.1455	000000
20		000.000cc	334011.0.000	39e2.7	227.4923	2769.1154	000000
3	4	4.5h.d. 600	3340-64.030	\$044.¥	227.6209	27cm.4981	000000
\$	-4	300°000000	12461114.600	3.441.55	647.6749	2769.8755	000000
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7	4	30000000	J. ** C. 1 . J. * 3 . 3	4.6 toh	247.3500	2796.9431	000000
3	•	1116-5-001	34-0. 10.000	9.5503	2640.022	2866.2999	000000.
*	. •	100.010000	3340 no. 633	9.6477	C445.022	2000.9493	,00000.
3	- <b>- 4</b>		000 . J. 114. C	¥.77.32	273.8284	2799.8070	000000
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X Ithii I	A Miles	A COMPATE (I.ETCAS)	Y COURTELINE	WIND SPEED FFETCHS/SECT	CINECTION	LAYER METGHT	VORTICITY	
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•	: -	1. 1000.000	2456:00.000	4.17.30	224.8071	2825.0465	187135-07	
•		727 277 277	つかつ・コニヒコーから	9.c 300	224.7057	2832.5077	413582-86	
•	4	20000000	34401.00.600	0+19C.0	4506-477	2836.0966	144169-05	
•	٠.	3000000000	342000000000	9. 553¢	223.5370	2830.4620	- 205224-05	
3	1	378.500000	3446.000.000	9.6563	Z20.5107	7805-0741	100 400 H	
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1.3	٠,		200 - 100	0024.7	244.772	2823.2691	280619-05	
2 :	<b>u</b> -	30.000 30.000	000 - 1-10 V	のナニナ・ブ	<27.2417	<829.1864	.136149-05	
<b>:</b> :	<b>,</b>	100.000.C	001.00 107+10	おり、ナ・ゲ	227.2796	2823.5480	. 376174-05	
3	٠,	2/2010.000	3442500,000	9.45+0	227.3221	2815.4928	574693-05	
3	٧.	1,06,00.00	344Ui nu. 500	50°5°6	227,3319	28u8-5199	75567	
7	۸,	505000.060	34201 11.1.000	3.5611	227.3590	2801.3165		
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;	17	000 C. 3800		*****	074.	7/64-///2	50-0716#0.	
<b>;</b> .;	V -7		000 000	9.32F	45.7.5104	2771.7563	.671041-05	
;	۷,	000001	3450103.00	9-4-54	. 447.4596	2764.4720	.440516-05	
Ş	٠.	230.000	3946 000	9756-6	227.4124	2769.0453	134041-05	
3	v	377.00.1	34461 50.000	9. HIDE	227.2111	2774.7496	625241-06	
3	••	**************************************	3440 100.000	9.7584	220.9711	2763.0060	261855-05	
ą	٠,	じょう・うっこしっト	3421.11.000	1017.4	220.8197	2749.7424	421725-	
17	٠,	000.0000.	34-50-00	9.5543	220.3044	2742,6695	- SA1887-05	
9	¥	) 10 · 320 U · ·	C04.4.6.0.46	9.1105	220.6443	:792.9237	665619-05	
۲,	•,	*********	3447000,000	4.572A	227.014R	2742,1405	716587-05	
ว้	٠,	113000.000	34 L. P. U. 003	5. S&Cd	247.109P	2741-1405	716315-05	
7	٠,	303.03167.	344 U. F 003	4.5122	227.3301	2790-1455	A0-01-01-1	
<b>.</b> }	¥	100.0000	Sec. 2. 000	Y. C. B. S.	というだったべん	2749-1154	301-4-7C-3-1	
3	٠,	300.00.00.00.	344.7.90.000	2000	6964 277	700 1001	0011110000	
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7	• •	170-4010-	600 0	3 6 4 6	1070°177	6174-6630	. DI 1696-01	
. 4	: •	1000		2000	0000127	2/30.94.51	.617793-05	
3 .4	• •			10.00 ×	K40.349R	5800.2995	.443322-05	
·	•:	500.00000	2440-1-1-106	2004	Z20.2440 /	2800.9493	.170660-05	
<b>?</b>	,	. 79	001° 1	4.7402	452.6289	27%9.4070	. 300492-06	
;		1.40 to 1.00 to 1	345, P. P. F00	2.77.2	245.32BR	2799.6075	000000	

		oo tha Filth	Chair FAELUR LAIGH HEIGHIR AND VORFICITY AT	I AND VORFICIT	IN AT TIME STEP	79 ( 3.00568	HOURS) **
A Hann	- مانه، د ا	A COCKULIARE (F.ETERS)	) COUNTINE (NETERS)	MIND SPEED (METERS/SEC)	L INECTION (LEGNEES)	LAYER HEIGHT (METERS)	VORTICITY
7	i 	700.0000	3540400,000	9.6379	2438.42	2833.0771	000000
•	2	1,00000.630	35u0énu. 900	9.6379	224.0242	2833.071	.521516-06
,	~	4.000.0.000	3500000.000	9.5272	224.7481	2845.9979	.182674-06
,	٠,	Suconn Dad	3500000.000	4.36+7	244.6257	2862.5535	A79750-06
١,	•1	5500000000	3500,000,000	9.2469	225,3327	2807.8166	267382-05
2	7	334003.000	35400000	9.2549	226.3119	2855.3884	543385-05
•	-1	355000.000	35500 00.000	9.3144	227.3059	2836.3454	105304-04
J	~	1.00.0000	35uuchg.000	9.36uE	223.5765	2816.7391	133047-04
5	~	3.56cd.dcc	3560' 63,000	3.48.32	250.2170	2784.6248	129242-04
> ·		undergrand	350000000000000000000000000000000000000	4600.6	232.0760	2740.5415	128285-04
;	•	300.00500	35,00000,000	9.5943	<32.7065	2723.7896	234786-05
1	1	000.000000	350000000000	9.4038	229.7697	2701.0995	.713559-05
7	~	305630.006	35066:00.000	9.1207	227.4310	28u8.3173	.113469-04
.4	.~	0.700010.000	3500eun-000	9.1410	6980.277	2822.7929	.123550-04
.\ <b>T</b>	,	3/5000.0000	3500000	3-2625	227.3587	2821.0350	.127175-04
Ļ	٠,	J.Cucu. ven	3500 00.000	5,3356	227.3422	2818.4560	.127322-04
17	•	3-5000.000	3500,000,000	9.3462	247.2282	2815.4428	.124939-04
7	1	750000000	35000 00.000	5054.5	227,1675	2810.8597	.116341-04
7.7	~	165€ viu. BuP	35.0^00.003	06 b 1 6	227.2204	2604.4132	.102874-04
3	~	300.000000	3566610.000	67156	227.3785	2797.1064	.819035-05
;	•	300.000000	3560000.000	9.56.19	227.5192	2790.0936	.500921-05
۷,	٠,	300.0001×	3500000	9.5602	227.7625	2763.4337	.213306-05
.}	٠,	415640.069	3560000,000	9.5917	220.1483	2773.3787	136612-05
ź	٠,	44.0000.000	3500000000	9.5643	226.5897	2764.8994	383272-05
ķ	7	*<5606.003	35,00,00,000	9.470+	226.2967	2772.4439	556038-05
ڒ	^	4.00000.4	35601 06,000	9.3193	227.8267	2765-6605	783866-05
ì	· ¬	100.00.00	15c Jr.no.nea	3.2100	427.7954	2754.5629	996835-05
3	,	********	1500.000.000	9.1642	226.0937	2794.4588	113308-04
ì	٠,	000.000000	3560600.000	9.1233	220.4069	2800.8974	115927-04
,	•:	name janure	Journay App	4.00.07	240.4111	2801.7232	109990-0
3	. •	640.00362.	3500.00.00.00	4645.6	229.3354	2802.3528	-,100937-04
. 1	•	0.00.000000	1500.nu.nu.000	9.1511	7569.67	2603.3015	876740-05
3	7	Son Son Service	3440, 00,000	2+50.x	250.0536	28u1.3559	766319-05
.5	• •	**********	Military Bushall	9.1340	<b>&lt;30.7</b> 962	4775.5054	582039-05
• 3	.•	313000010	350.1.1.0.0.000	7.1417	230.7585	2796.4998	136656-05
3	7	J00*2000**	35001 00.000	9.1145	23,1,2,21	2804.7290	.607307-05
• •	•	Tube Source to	35,000,000	y . 2675	229.7534	28211.2237	.923477-05
3	•	766-1-11-6	15001119.668	9.4105	220.7809	2826.2210	.616893-05
ì		じつり・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	1760600.000	30.4.6	221.397n	2819.2419	.166204-05
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3.00568 HOURS)	HT VORTICITY	000000		168802-05	_	1584411-06	1391230-05	113004-04			•	10-612/51.	•				•									_	·	•							611843-05	•	7 .908862-05				4149290-05	
79 ( 3.0	LAYER METGHT (METERS)	2844.4371	2844.4371	2866.4621	2912.2709	2947.0551	2904.7041	2974.653	<b>4949.655</b>	3005.2698	3004.7565	2863.8677	2595.2401	2855. 7614	2886.0127	2861-1770	2882.0079	2886.9000	2896.4985	2912.7836	2929.0931	2934.2086	2963.0195	2961.0067	3000.2047	2920-6609	2963.4621	2997.6113	2992-7116	2409.1772	2984.9780	2979. 3628	2954.9436	296A.J426	2973.4790	2905-5177	289A.U927	2928.6746	2910.9672	2847.6340	2824.4864	
** LING FIELD, LAVEH HEIGHT AND VORTICITY AT 11ME STEP	LIRECTION (Ceuaéés)	224.8079	224.6079	224.6559	244.5071	24 0275	245.3918	225.4766	4260.022	220.2150	<50.5785	240.0961	.39.5816	233.7019	457.5175	250.9917	220.7721	220.3801	<b>25.9383</b>	242.5493	252.7042	653.00	220.5467	226.5366	424.6969	23c.9268	<30.5305	230.797R	< 31.0432	232,5919	433.3229	£ 54.201A	235.2512	£34.8579	435.9698	4.37.6024	£30.4967	€ 34 . <b>6</b> 009	432.4344	423.3417,	247.4038	
. AME VORTICII	AIND SPEED (METERS/SEC)	5.5406	4.54L3	4.35.0	4.0317	8.7433	6.55.1	40.4032	6.2543	ð.15'tö	4.2.20	10.0942	11.2979	9.4853	9.6736	9.0845	9.1293	9.1165	4.0655	c.9651	4.8°23	8.6233	8.7150	8.5471	9.5102	b.927£	4165.0	6.5192	46.44.0	4.4302	8.4105	0.4536	0.5700	するながのの	6.560	41.0.4	4.3430	12 wo . a	4.2772	5.5459	2.7.2	
I LAYEH HETGIT	1 CONTRATE	35444104,980	354000000000	35441.00.000	3540000.000	3540000.000	3545603.000	35+010,000	3543(43,000	3540,04.00	3540000	3546 00.000	3540(.na.C00	3240000000000	354000000000	3546000	3540600.000	3540000.000	35+25-20-000	3540000	35437 60.000	3540000,000	3546096.600	35.00.000.000	3540(00.000	35447,00,000	35+31 PJ. PBB	35+01 20,000	3340104.000	35455 04.000	35431 96.300	25.00.00.000	904 7	000 TO 10 TO	374	700.00 100%	CON . S. SANS	35. J. J. P.	37ac	3i.c.	2,78¢,	
LIAS FIELD	A LUDRUINATE ( :ETLKS)	010.010.1	1000-00001	CO000000	24000000000	320664.600	220000.0000	2.5000.000	0700001	1+56J0.40	1,000,000,1	J.55600.000	200000.000	302070.000	300.0000	2/2000.000	0,00000 . 0000 c	202000.000	370.00000	2,5000.0000	4460000000	445000.340	4100.00.000	-15000.000	1<00.00.00.	Souv. 0.00	000.000cm	4150UJ. U.C.		1-50.00.00)	つつで・0つつかく・	1750.0.600	・1.06.Je。 t. L.	50.6.	+796v0.4uJ	3000.006	~30.0035	100 00 0 JK.	377.77001	Stores ess	2000 C	
	1 1.1.2.3	-	+	•	•	•	•	•	•	•	-	•	•	<b>;•</b>	•	<b>+</b>	•	•	•	. <b>•</b>	<b>+</b>	٠	+	•	•	•	•	٠	•	•	•	•	•	٠	•	•	•	٠	•	•		
	X 1.mcA	•	v	.,	*	n	,	~	,	P	*	7.	.;	7	<u>*</u>	7	3	17	-	Ş	1	77	1	4	ć	;	2	`.	3	,	ぇ	3	‡	3	ዳ	3	さ	ì	3	ŝ		

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		se alla Fablica	So LATER PETGING	, ALIO VORTICITY	IN AT TIME STLP	79 ( 3.00568	3.00568 HOURS) **	
# 1.b.	f Lines	A LJORUILATE ("ETERS)	T CUOP DALIATE (METERS)	wind SPEED CHETEKS/SEC)	UINECTION (DEGMEES)	LAYEN HEIGHT (METERS)	VORTICITY	
-	٠,	Jon Gugurt	35cdC0c.000	9.4626	224.6666	2852.0190		*********
J	ir.	1,0000.000	35000000000	9791.6	424.6666	2852,0193	4160104	
3	.4	000.0000	35061 Pu . 000	6.1903	224.4641	2863.7929	386321-05	
•	ā	300 - Jngunn	35001 00.000	77.77	224.2270	2953.2590	414956-05	
.3	n ·	346006.000	35curba.000	6.2743	224.1410	3013.1443	349067-05	
اد	<b>.</b>	3300.00.000	35cJung.000	7.9398	224.1692	3054.0591	291401-06	
•	.7	325646.000	3500500.000	7.6479	224,1154	3080.4676	930289-05	
>	.5	340600.000	35006.00.000	7.5030	<25.0524	3106.9336	550148-05	
٠.	7	0.00.0000	350c for 000	7.4502	220.2734	3123.7161	. A14105-05	
;	•	370000	350vf00.003	7.5064	243.1982	3113.6201	337614-05	
:	.a ·	325646.346	35641 06.000	10.7505	243.7297	2881.7798	.301725-04	
77	•	2000-0000	3504600,000	13,2793	244.2686	2359.0495	258644-04	
4.	<b>n</b> :	C00.0050c	3503604.003	9.3230	231.0319	2762.2978	393602-04	
¥.	in.	270,000	3500FPu.000	6.3846	225.299A	2889.1001	340047-04	
2.	7	J756cd • 000	350000000	0.3337	224.9383	2859.5314	260364-04	
1	'n	350400.000	35000 00.000	6.3423	224.9624	2912,6490	221368-04	
17	. 7	305606.000	35000000	8.8138	224.4790	2935.7918	183456-04	
70	ı,n	349646-000	3560,000,000	6000	223,9969	2967,1693	146196-08	
Ş	'n	395600.000	3506666.000	6.3430	223.5112	3006.2961	114551-04	
2	•	4.06.3.060	256ul fil. 009	6.1526	223.9182	3041.9966	A053A1-05	
77	יחי	*******	35000000	7.3710	224.5075	3064.8363	225803-05	
7	הי	********	3500000	7.775	225.5916	3105.2036	631751-06	
3	٠,	+15609.000	35001 06.000	7.5467	225,9879	3128.7249	246145-05	
₹	٠,	4-60-0-000	35cuting.000	7.736	229.5749	3140.5374	242243-05	
ş	:n	14.56.00.000	35000000	0.2310	233.2011	3009.3496	937148-05	
}	a	100.0000+	35000000000	7.3943	255.0069	3116.3167	168123-04	
,,	•	**************************************	35001.00.000	7.70.7	233,9543	3131.4655	183166-04	
3	י רי	220.0000	35,000,000	7.7204	245.5428	3121.1696	170460-04	
"	17	++50v9.Jul	3500.00.000	7.7417	237.0542	5114.5011	147716-04	
<u>ک</u>	า	500.C.000+	35ov( 114.000	7.32.4	Z30.1054	3104.9265	-,116765-04	
ร้	า	300°C2054.	35001.06.000	7,3539	259.420A	3092.3466	123001-04	
4	•	いつつ・ロップジロ・	35011190.000	0571.0	240.7030	3062.4581	141439-04	
<b>?</b> .	•	105000000	350,300,000	7,9912	c40.2985	3075.7593	931628-05	
ጓ	•	• /00000·	35001 00,000	B.3137	241.4499	3069.9967	336925-05	
ç,	۰,	*156v0*0v0	35001 00.000	9.2133	243.3977	2955.8154	382602-05	
3	•	and early one	35031 110,000	4.15oJ	241.5509	2944.7092	105387-06	
à	٦	**************	\$500, 0c,000	6.4100	236.837A	2999.7744	40-56-041	
X	•	) コア・ジャロー・	35001 110,000	9.3100	235.4163	2965,2215	718404-05	
7	•	saf bodauce	<b>55</b> 00000000000000000000000000000000000	9.6437	434.7462	2860.0713	951211-06	
;	7	რიი-ნამმია	35cui 00.003	9.8302	227.7801	2820.901.	369033-05	
;	•	7.00000000	35631 00,000	9.435E	<b>22/.79</b> 01	2820.9014	.000000	

3.30568 HOURS) **	VORTICITY		000000	20-60+105	.670659-05	. 854585-05	. 966849-05	.120769-04	.170633-05	608563-05	.266013-04	836692-05	.352235-04	.358131-04	. 617114-04	.587706-04	.411585-04	.315852-04	.235523-04	.183364-04	. 168686-04	.159226-04	.145721-04	.105409-04	.147631-04	. 690393-05	150203-05	466150-05	791974-05	623447-05	725942-05	754597-05	644028-05	145733-04	893245-05	. 322265-06	2859 <b>29-</b> 05	.677341-05	.135457-04		466419-05	665034-05	000000
79 ( 3.30566	I X		2852.8770	2852.8770	2892.8349	2978.4284	3051.8921	3093.7204	3108.4285	3144.8969	3145.4397	3124.6506	2860.9532	2197.7381	2713.5499	2908.4280	292H . 9628	2962.0417	3013.6007	3071.0643	3130.2909	3170.8926	3197.2862	3231.6770	3259,6269	3244.3641	3170.6520	3213.9077	3214.6832	3199.3563	3164.5821	3174.9564	3144.3130	3104.7494	3129.5775	3095.734B	2953.2973	2965-9695	3019.6975	2967.3969	2835.0428	2767.5548	2767.5548
T AT TIME STEP	LINECTION (LEGNEES)	4.0900000000000000000000000000000000000	524.4006	224.4006	224.1675	223.8217	4454.522	<<>.<>.<>5555	223.2803	225-1301	224.1981	224.0810	244.3791	246.3590	230.1903	223.0787	223.2278	243.7107	223.4470	223.2917	223.2170	223.8375	224.9019	220.4135	227.1799	231.3154	<36.1914	230.2549	237.4050	230.9530	z.59.9374	240.9613	245.0142	243.9401	C+4.8747	2***0316	44.0104	243.8357	240.5401	430.1497	£34.5409	227.0524	227.052A
. AND VORTICITY	WIND SPFED (*ETERS/SEC)		9. +232	25.4.5	9. 7915	6.5205	7.9415	7.0474	7.4477	7.1490	7.3401	7-4'1-7	11.0049	14.6453	16.1839	6.4535	6.5843	d.5n29	6.1969	1, 2997	7.4530	7.2535	7.0479	6.9259	6.5643	7.1507	7.5900	7.2700	7.19.0	7.2700	7.4110	1.4961	7.7101	ö€ 10.0	4.na.y	0.5313	40.00	2.1403	1. 2. L	4.51wh	47.50	10732	10.1752
#1.45 FIELD. LAY.M. (FIGHT AND VORTICITY AT TIME SELP	T COUNTAINATE (HETE (HETE (HETE (HETE (HETE (HETE (HETE (HETE (HETE (HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE (HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE (HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HETE)(HET	************	3576100.000	35/2000.003	3573660.000	3570000.000	35701 04.000	3573176.000	35761.00.000	357060.000	357040.000	357660.000	3576-00.000	357500,000	35/1000,000	J570FB.000	3576000,000	3570Ln3.000	557Jrng.000	3570106,000	3576(-1)0.000	3570000	357600.000	3570110.000	35701110.000	3570-11.0.000	3570000.000	357000.000	3575006.000	35/00.00.000	35 7000 000	35/01 600	357.000.000	3570 (0.00)	35700 10.000	3575000000	557ょいいい りるの	357ut n. 600	35731 00.030	557U. nv. 600	3570""" 000	3570'11,000	35/00/04 303
** ** ** ** **	A CORUL MATE	************	1,00000.000	10000C	2000.00007	300000000	J.: 00000-100	22000000	3350v0.00t	345556	345000.000	370000	J.5666.040	300000.000	255.00.000	70000.000	.,750v0.bcc	30.000000	2,5000.000	240600.000	3950ch.060	0.00.000.0	***50.00.000	~ T0000 • P30	15600.000	000°6€067+	4, 5606.406	さいしのこのこの しょう	* 156.00.000	ショフ・コンソロナト	*****	300.00000	417640.000	100 ch 00c+	+050-J. 400	1,6000	1,5600.000	+vc@nJ•nnc	000000000000000000000000000000000000000	34.7000.000	ションじんしり ことしご		7.50 30.000
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Luce 1 4.45. C	A LUORUI IATE	f Court ATE (Suffered)	AIND SPEED CHETERS/SEC)	JRECTION (DEUMEES)	LAYER HEIGHT (METERS)	VORTICITY	
	370.0000	5575710.000	9.4111	224.1601	2851.9786	.000000	**********
~	ո <b>րո</b> - դորյու	35.731 flu.039	9.4111	224.1001	2851.9786	.755945-05	
	000.00000	3575"Fe.090	9.0326	223.9063	2896.4842	.105825-04	
7	200.000000	3575/144.390	9.4000	223.4753	2991-1309	.139025-04	
٠.	000.00.000	30/30/07:000	7.9355	222.8360	306A.7532	.155675-04	
•~	600 - 3000n	960 . Up ic/.9	7.5212	241.6968	3110.1408	.130760-04	
~	<b>うかわ・けかみないこ</b>	3575000	7.1150	220.0526	3159,4359	.214280-04	
	100.00.00.	35.75c (1.5.00u	7.5803	247.2746	3116.3493	.979418-05	
_	いつり・ロッシピ・コ	3372-114.000	7.7302	223.1612	3093.7733	.193386-04	
`	290.00.0077	3575590000	7.6120	221.0144	3114,7139	380786-04	
۸	300.3003.0	3575-100.030	11.1193	244.2638	2887.7846	.517085-05	
`	3000000000	3573 110 0190	15.21.3	247.6589	2111.5345	120101-03	
`	375030.000	35.75.300,000	9.3576	67.6.627	2731.0289	239748-03	
	300.000/0	3575 "0.000	7.5273	222.7824	3014.6830	175986-03	
~	1/5600.000	357504.00	7.9341	223,2135	3061.2274	120259-03	
~	37000000	55.751 00.500	7.7200	224.1943	3054.7084	.760770-94	
~	375640.000	35.75.00.000	7.5930	224.1471	3120-1172	.575259-04	
,	340,603,44	3570-00-000	7.0535	224-1174	3175.0088	.411465-04	
~	C. J. S. C. O.	3575-61,000	26.54.9	224.6934	3224.6187	.387376-04	
~	0.00.00.000	35.75 00.000	6.74.17	224.8136	3237.0726	.316034-04	
~	********	\$375000.000	6.55+0	225.5185	3257.5523	301894-04	
	300-000 315	3575/100.000	0.4439	225.9065	3266.6154	.265592-04	
~	300.000.00	35.750 60.000	0 1840	226.1131	3269.6148	.204273-04	
-	300.0000	3575 000,000	6.9219	< 11.1535	3254.6069	.235566-04	
`	. 50ca. eac	3575. fu. 500	7.1920	. 50.1568	3206.5227	.950165-05	
~	303.0000.*		7.134	. 30.3385	3229.7316	.114105-04	
٠.	1,10° 1,100° 1	307. 14. 006	2700.0	2.57.4397	3226.5338	.575350-05	
	011.000x**	000000000000000000000000000000000000000	1,2470	C40.0243	1191-5134	106245-05	
~	andendante.	76.757 11. Land	7.47.9	241.4081	3174.3049	837293-05	
	anneunous en en	7575' 11 Car Lan	7.11.74]	242,2540	3167.3185	869326-05	
_	370.000.11	000.00.00	7.5934	243.1583	3146.4090	356192-05	
`	200.00.00	5515100.00	7.6416	244.9692	3150.6987	. 555349-05	
•	シコロ・いつのいつ・	3573, 00,000	0.1171	247.2400	3150.4770	127511-04	
_	000.0000//	3075014,0000	9.33.17	245.9154	2995.4189	743546-05	
	100.0000	75,75,6 110,000	9.5116	245,1222	2924,3531	116174-04	
`	J99.00000+	35.65. 10. 345	30 ac . A	2+5.0124	2962.0110	.112755-04	
`	Caucoul 15+	75/21 30 non	9.2239	2.40.9217	2999.0904	126116-04	
`	000.000 Tr	31.75.00.000	9.74.4	735.6946	7681.1867	-119422-05	
	S. S. S. S. S. S. C.	15,77,1 11, 0011	10.1976	26.9.42(3	27vu-8v75	- 959586-05	
	7020000	000 11 11 17 / 1.	36.00	200 - 200 C	2744.4473	- 102450-04	

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	HOURS)	VORTICITY	**************	000000	. 90394405	.122027-04	.141747-04	.125382-04	.624553-05	124978-05	. 255086-04	.777513-05	557990-04	237140-03	.303995-03	.349586-03	.282498-03	.196874-03	.137346-03	.102304-03	.581487-04	. 453091-0#	.422101-04	.332603-04	.296501-04	.179324-04	.145089-04	.108679-04	. 367550-05	.680091-05	.517607-05	.555825-05	404840-05	.308073-05	819308-06	.537651-05	214491-05	226048-05	.204991-04	.143614-04	124036-05	107693-04	117273-04	000000
•	79 ( 3.00568 #	LAYER HEIGHT V		2853,5653	2853.5653	2898.3776	30ub.1719	3069.0383	3117.1086	3124.3103	3050.0957	3096.1508	3143.2553	2742.1143	2058.7470	2892.3089	3071.9234	3050.4172	3146.8072	5192.4605	3222.0219	3274.9845	3269.2004	3266.0524	3298.4241	3276.3316	3286.2221	3213.5762	3228.3243	3234.6000	3213.3471	3158.4119	3161.6999	3202.3408	3216.3467	3059.0237	<933.2204	3015.8384	2901.2753	2975-1807	2923.5839	2750.9358	2717.2184	2717.2184
	Y AT ITHE STEP	LIRECTION		223.9520	223.9520	245.464B	223,1065	<b>422.3207</b>	223.7617	220.8526	219.5301	218.5257	211.6708	231.1756	247.1574	229.5164	×15.0469	423.0379	223.1122	223,4666	222,9145	24.1.72	224.1508	224.1629	4416.472	220.7675	231.1549	234.8050	< 36.3300	230.1068	C40.042	2+2.2040	245.1020	C40.8587	240.0490	243.9661	Z*** 9219	246.4223	244.0791	240.5792	235.4803	\$450.02×	225.3651	225.3651
	. ALID VORTICITY AT	WIND SPEED		9.3746	9.3746	20.6.0	4.2524	7.6943	7.5143	7.6294	b.1594	6.0344	7.7244	12.7103	14.3447	0.704C	6.2115	6.8798	6.7875	D.5848	6.5571	6.2918	D.4534	D.269H	b.2522	€.3032	4745.9	7.1756	6.7496	L. 7344	60,000	7.1323	7.2077	7,2333	7.35.12	d.9038	9.5016	4.24	7.2647	¥.5347	10.0443	16.4743	10.5533	10.5533
	· LAY' K HETGHT.	COCHPINATE		วริชนก์แน้.000	3500006.000	3503000,000	35,36.00.000	3560000.000	.550JCDu. 908	35aU(nv.000	3500(110,000	35a0000.000	3563000.000	3500000.000	3546200.000	354JUON . 900	3586t nu•0ag	35aucou.000	3500000.000	3501,00,000	3500000.000	3500:00.00	3580000.00	35401.00.009	35c0cn.000	350ui0.000	3540000.000	3566 06.000	<b>356</b> 00000	35~1501.900	35att 114.000	350-21-110-000	35000 00.030	35001 11,000	15001.00.00	3500.00.000	3500:00.000	150t1 Av. 000	25001 110.000	2500/ 1/4.093	150.01 (10.00)	3540-00-000	35001 11.0003	3500.00.00.003
	•• #1.4· F SELE·	A CCORDINATE C. F.L.RS3		1000001	しつつ・ひつひじいて	CC.0000000	377.079677	000 0000 000	200.000000	J. 5000. U.C.	3~00~0	3~5066.000	350049.000	272000000	000000000000000000000000000000000000000	30200000	3/0000.000	3,50,0,000	3::0000.000	3.5000 · uuc	300000000	0.00.00354.0	300.00000	+156,0.00	*100.0001*	272000.000	000.000c	4.5600.000	+196.00.06J	4.5660.003	-+96.0.00	~*560d.600	3,000,000,000	ან5მა0•0 <b>მ</b> მ	2000 fisher	いっちんしい。こうなっき	.,700c0 . GGO	*/*0°0°	30300000	*******	COD. COUPLY.	220.20.3020	230000000000	1400-16-0001
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139100 84500 F 1 05	HE1GHT	(MCTERS)	2863.3140	2863.3120	2891.9985	3043-0832		3122.2500	3051.2115	J033-9784		•	-	2879.98*5			3186.6425	3215.64.18	3248.0009	3276.9062	3234.8852	3229.6397	3305.5829	3316.2103	3332.9710	3253.1255	3273.2064	3357.5714	•	3234.0255	3234.7756	3270.0909	3202.4722	294H.7492	2943.6460	3047.5252	2952.7589	2831.3098	2897.0429			2654.1474
Y AT TIME STUD		(DrinkES)	223.6728	223.6728	262.0691	221.0016	221.0127	221.6308	221.5970	2<1.5765	243.2494	227.9165	243.4648	240.3173	<b>634.7781</b>	222.7695	224,5375	c20.2663	219.0653	210.2124	220.1106	2<1.5544	220.402D	241.6967	222.5641	224.7509	230.5853	230.4469	<44.5972	<41.7770	<+1.2471	250.4535	247.5217	244.4404	<+3.4607	243.7179	240.3234	241.5603	< 30.4016	233.9759	427.5914	2500.472
TIDITECT ON	WIND SPEED	(AETERS/SEC)	9.2520	9.2620	6010.0	8.7418	7.7006	7.7692	4.3572	6.5746	0.9124	10.3247	10.5576	8.4174	5.3841	4.6096	4.9533	5.1703	5.4707	5.6505	6.1A34	6.3367	2.30g4	5,7923	5.5902	6.2745	5.9Au4	5.7419	3.9504	6.5171	c.5A35	5.2015	7.7283	4.6273	9.5A31	9.0475	9.3166	10.4132	10.2027	10.53.77	10.9959	11.7244
WIND TAX TELEVISION OF STREET STREET STREET STREET	T CUG- INTIBLE	(NETFIRS)	3590000.000	3.34000.000	35,40000,000	35%Jrn.000	35901.00.000	35400000000	2546100.000	354000.00A	35431.43.003	35%000.000	35% JAU . 100	259000000000000000000000000000000000000	\$5%00000.000	35%600.000	359600,000	3596000,600	35401.00.000	3596606,000	35%(00,000	35%/1.00,000	354660.000	35 yel no, 000	35901 116,000	35961.10.000	3596006.000	35,4050, 000	35706.00.000	37,000	35%61 00.000	3556.00,00	3,550 110,000	35% : 110,000	35900000000	3590,60,000	55yean 000	\$590%;;;;,n00	3546-106-000	3540: 00.000	3590 JOU 600	3570 00,000
o slike Field	A CUCKULIATE	( ·ETLRS)	103000.030	1.0000.000	000.00000	3000000	J. 6000 . U.C.	200-0000	370.00.07	240000.000	3000.0cc	25.00.00.00	325000.000	300.03000	000 .000 co.	07000/0	375000.000	30,000.00	3~50~0.000	07000000000	3,56v0.tu	000.0000	********	******	000.0005.	4-0000-4	330°0°0°2	100000	300.0000.	770.00.00	**5000.000	- John J. 1000	(1)0.00.05	300.00.00°	425620.066	- /no-jc- jak	1750 JO. 000	4 300 c c aud	4.700.0.00.00.	3,66,36,836	ひょり・しょうひここ	, 100.0000
	Y Just	7	7	7	7	7	7	=	7.	-	2	<b>1</b>	<u>.</u>	7	7	.,	2	3	<b>-</b>	7	3	2	<b>?</b>	<b></b>	1	7		7	9	7	7	1	-1	F. 4	7	7,7	-	7.	11	-	7	-
	I.h.	7	•	•	7	•	a	3 '	•	•	٠,	7	1	4:	3.	*		2	1/	lo	7,	:) N	ć,	4	۲,	*	CZ ·	<b>%</b>		97	۲,	<u>س</u>	46	3	3	ż	ก	ત્ર	``	ᆚ	4	<b>3</b>

:: 7	SL/1.5Kh . 1.1.	La Filta	Fire I termin aboust Eat 110, E	E.J ito, EL				UATE 061173	PAGE
			oo alaa Fael	FIELD, LAYIN HEIGHT.	. AND VORTICITY AT IIME	Y AT TIME STEP	79 ( 3.00568 HOURS)	HOURS1	
*	Itale X I	1 1113EA	A COUPLINATE (~ETERS)	r CourrissATE (ACTERS)	WIND SPEED INETERS/SEC)	DIMECTION (DEGMEES)	LAYER HEIGHT (METERS)	VORTICITY	
	· •	11	100000.000	3595500.000	0:02.6	273.5838	2870.2609	00000	
	ų	11	100000.000	359500.000	00000	223,5838	2870.2609	1010000	
	•	11	260643.006	3595( 01,000	0 - 9 C	201.7310	2804.1284	10110101	
	,	7.7	300000000	3595000,000	8.29.45	219.580A	3028,3329	**************************************	
	•	11	000.00.20	3595 00.000	8.1463	216.3776	3074.2355	412900-05	
	ə	11	39000.	3595 00.000	6.3590	220.4077	5061 . 3252	- 076 14 OF	
	7	11	335000.000	3595000,000	6.5245	001.000	3074.0054	200110000	
	٥	11	310000010	3595( 00,000	8.2673	0011.00	3071.9480	0010100V	
		7 7	049.0044	35×5000,000	8.23.7	754.5643	1046-140E	DOINT DATE I	
	3	11	3.00000.000	35%500,000	4.0505	225.1745	3105.9618	1011030001	
	77	:1	F100.00.000	35%5000,000	10.0135	741 - 5745	3011-1777	20-0104-16.	
	77	11	00000000	3545" 000,000	10.6142	V45.4104	27(2.739)		
	-1	1	305000.000	35y57n6,000	7.0339	234.1650	3084.8313	10000000000000000000000000000000000000	
	:	77	1.00.00.0	35%5' (14,000	5.4271	100 C 100 C	3213,7335	E01000001	
	7.7	11	375006.000	3595(110,000	4.8737	/22.288B	3213.6163		
	0,	17	370.07007	3590000000	25.06.4	213.9481	3230.5020	70-2012	
	17	**************************************	205049.300	3595(00,000	5.2529	217.8535	3252,1080	40-0-1-1-0-0-1	
	9	77	3,000,000	3545(00,000	5.4737	216.0175	3274.7604	40-76-000	
	7.7	11	375000.000	359500,000	6,0403	6130.410	1010-8004	044104	
	7	11	200.0000	3595004,000	5.75.00	018.017	1061.1011	**************************************	
	41	11	4,50,0,000	3545660,000	5.5456	0.000 P.C.	1101 1016 1101 1016	10-000 T 100	
	22	1	000 TO 000 T	35%-000-000	000	9100 000	4074.43.00 47.14.74	#0=06067C*	
	23	7	3000.000	3550,00,000	200.5	124.1703	4474.5010	#0-000#0Z*	
	*	11	100000000	154500	5.5351	00 T 17 0	3414 616	#01000000	
	2	11	2.5000 and	3545 (60,000	10.00	0001.000	2010:0100 2407 0104	10 /0055	
	70	11	0000000	35%57 60.000	4,47.5	0100.10J	3447.7404	#01006001*I	
	7	11	100.00.00	3585 04,000	6,263	0104144	7045-8140	CO-CA10A1.	
	٥۶	77	3400-00-00-0	3595( 00,000)	5.88.58	747.0u77	3292.8290	10-20-00-	
	63	-d -d	30E 6005**	35950110.000	5.7334	24.5.3009	3346.9135	56.825.31.04 .56.825.31.04	
	ž	<b>1</b> i	მიიცია	3595 110,000	7.3717	240.0014	3172.4977	175513-04	
	ゔ	27	405000.000	3595-00,000	8+00×4	240.2166	3011-3163	50-8055#2"-	
	ž		450000.000	35,950,100,000	9.31.9	245.3084	2942,7207	607556-06	
	3	11	200.00040.	3595-1-0-000	J. 3601	242.7510	2993,1761	113425-04	
	4	<b>T T</b>	1,0006.000	3595, 1.0.009	9.1356	240.7557	3016,5874	A59193-05	
	7	11	+ /50uc.	35421 0.000	10.3930	242.8834	2876.0431	410693-05	
-	ş	7 7	377.07001	5545 C. 1. 1. 100	16.7162	4144.142	2767.6145	178635-04	
•	2	71	4 17040.000	3597.110.000	10.3170	2.38.8574	2904,0051	224468-04	
•	3	. 7	377. UUGUTT	37 75 5. 6. 6. 000	16.3439	<35.6763	2856,0243	454727-05	
•	ş	11	300.00000	\$5%3000.000	:1.3012	240.9245	2631.0425	114107-04	
•	;	11	300.0.00cc	3595 fra. Ann	11.2044	223.5175	2616.4085	1-: 112-04	
•	;	::	740360.000	\$5.85. Pu. 50.	#662 · 7 ;	225.3175	2616.4085	000000	

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3.00568 HOURS) **	VORTICITY			コートロナロウト・	.652465-05	.377528-05	197703-05	123639-05	330771-05	405504-05	.424463-05	.372061-04	. 305270-04	955172-04	110906-03	120246-03	68557#-04	.155492-04	.581421-04	.836278-0	.862055-04	.609735-04	.562422-04	.287444-04	.295628-04	*0-665*6*·	.374B11-64	184944-04	.172055-04	300983-04	463497-04	.396108-05	.344107-04	264927-05	312866-05	.165614-04	.657797-06	342790-04	.342932-04	.954422-05	965426-05	135915-04	
79 ( 3.00568	LAYER HEIGHT (METEKS)	3645 3645 3646	074104107	614/ 4/07	2902.4756	3015.0033	3059-6298	3056-1617	3078.8948	3105.0280	3097.6149	3070-1461	2932.4712	2787.7392	3060.3376	3234.3900	3234.2719	5236.6385	3257.9826	3270.6544	3281.0636	3365.3737	3328.8081	3335.6800	3354.4563	3390.7061	3340.4887	3347.0011	3293.1523	3266.8297	3244.6051	5172.1693	5059.7958	2872.9614	2919.5708	2949.1951	2835.3881	2816.1033	2694.5916	2837.1668	2564.8477	2574.2456	
r at time step	GIRECTION (Cegaees)	19119191919191919191919191919191919191	201101 101101	*C7**C>2	<22.0176	219.2122	218.3072	<19.6391	241.5748	222.1576	225.2901	226.1418	237.2459	243.9637	233.0736	c : 1.7571	2<1.0679	<13.3799	217.1460	210.1520	214.4567	210.0231	215.1636	217.3849	220.3795	223.4285	231.3388	Z+4.1684	<42.0865	240.2487	<44.4765	244.0861	246.4130	244.8250	242.3829	233.7815	242.2199	240.0763	240.5046	254.2769	225.5721.	2/2.5366	
. AND VORTICITY	WIND SPEED (NETERS/SEC)		77. 4.6	7.1035	8.7548	0.3644	0.1950	8.2050	7.9742	7.9445	7.9241	6.2900	9.9571	16.3372	7.5905	5.7714	5.0412	5.0049	5.1326	5.2053	5.4603	5.2053	5.1541	5.0592	4.825	4.6648	4.9905	5.1906	6.0240	6.2471	\$-80.4	7.6741	9.1352	10.6340	4.9673	9.8702	10,7713	10.3240	10.1995	11.3126	14.77.2	11.59.22	
** 31.40 FILLD, LATTY HEIGHT, AND VORIICITY AT TIME STEP	r COURTINATE	16.11 CON 000		000.0000	36,000.00	3600000000	3606706.000	36400000	36646.00.000	36000000	360000000000	3646603.000	36600.00.000	36000000	36000000	3400000.000	36000.00.000	36600000030368	36,000000.000	36401 00.100	3400000.000	36600000	36uur nu . 000	366(0.00,000	35000000000000000000000000000000000000	36UC:00.000	36500000.000	350000000000	3500000.000	3600000000000	3500,000,000	36366 00.600	Tough 00 400	3500 1000	36ev(10.000	3640000	Sound the DOO	30000	35401.00.00	364. 1.4.900	3546 00.000	3000.000	
•• alw Fills	X CUCRUTIMIE (.ETLHS)	1999 63607		000.000	000.0000V	200000.000	00000077	000.00000	JUS000.300	0.0000+0	0+5090.000	000.000000	3.5000.300	000.00000	000.00340.0	200.0000	375000.000	300000000	325000.000	34000.000	3500.000	40000000000	4.5040.040	4100J0.0v0	+156v0.0vc	4<00.0000	4<5000.000	100000000000000000000000000000000000000	125066.000	4.00.00.000	++50cJ.cun	*50000.0vC	30000.000	333.0300+	+05640.046	+700-0-0-0	* /Sauc. 600	+.000v9.#0t	000 20056.	. v0.0000	230.30000	C. 500 JC . 0 . 0	
	T BALACK	7	4 :	71	4	2 <b>7</b>	1.	75	77	77	7	75	2	12	71	71	71	12	7.7	14	77	77	14.	75	71	71	71	12	71	71	2	-1	1.	7	7	7	, , , , , , , , , , , , , , , , , , ,	77	-	71	Į.	4	)
	X Index	-	•	•	`	•	.3	3	•	3		4	77	4	2	=	2	97	:1	7	41	3	77	4	۲2	Ş	ćż	3	17	1	Ş	3	3.	4	3	4	3	۶.	ì	3	4		,

ASL/MSMm alita FIELD		TENRALIA MIJUSTMENT MO. FL	EisT mU.FL				DATE 061173	ã
		who fill	blid fiele, Layer Height.	. AND VOPTICITY AT	Y AT TIME STEP	79 ( 3.00568	3.00568 HOURS!	
H Jiana Y	1 INDEX	A COOKUINATE	Y CUUPINITE (METFIXS)	WIND SPEED (METERS/SEC)	UTHECTION (DEGREES)	LAYER HEIGHT (METERS)	VORTICITY	
	1	010000T	3605000.000	9.1279	201.1080	287k . 081k		l
•	7	1.000.0.00.1	3645000.000	9.1279	223,1289	2874.9834	456115-05	
3	27	200000.000	3645040.000	8.6785	221.9846	2908.5369	792325-05	
•	7	300000.000	3665600.000	8.1370	220.0001	3052.0646	.466322-05	
n	13	3.0000.000	3605000.000	7.3186	219.9406	3115.0825	199974-05	
•	13	339600.000	3605000.000	7.770	221.2070	3124,9257	101049-05	
-	13	335646.000	3505000.000	7.7059	222,6730	3116.4383	103032-04	
•	21	3+0060,000	3602000	7.6107	222.9911	3123.8445	106655-04	
•	13	345000.000	3605000.000	7.6941	225.0965	3134.4996	133312-04	
2	")	20000.000	3645090.000	7.3951	224.1110	3134.0166	739328-05	
=	7	325000.000	3642410.000	9.0166	250.4226	3118.8467	.297653-04	
<b>4</b>	7	700000000	36051 00.000	10.9899	243.0446	2807.0004	. 796420-05	
3	7	302000.000	365500.000	3.26.38	232,8032	3008.3268	. 337307-05	
-	5	370000.000	350500.000	6.0856	224,7879	3255.6957	194166-04	
2	77	2/5060.000	3665601.000	5.4130	220.6773	3293.5862	S19745-04	
2	2	340000.000	3605000.000	5.2656	216.9858	3257.5786	202623-06	
22	7	265020.000	36.5640.000	5.1005	215,7912	3275.7673	*ローハナオののの。	
2	13	240000.000	350500.000	5.0065	£13.9860	3262.1627	*0-*06S99°	
<u> </u>	13	395000.000	3605000.000	5.0940	212.2982	3313.0361	.662796-04	
2	13	1.00.0.000	3605000.000	4.9961	214.9070	3309.6295	.542595-04	
2	2	40,5000.000	36u5ch0.000	4.3540	212.3710	37:3,9162	*0-18084*	
*	7	200.02001	3645000,000	4.8000	214.3222	0180.01.N	. 323427-04	
2	7	415060.000	36050nc.000	4.6474	217.4340	37.7.4.1.5	. U4B1U5-04	
<b>2</b>	2	070.0000	3605000.000	****	221.3077	3369.1909	.462825-04	
3	2	+<5000.0000	3603000.000	4.1244	24.7491	3396.4806	.569083-04	
3	2	370.0000	3605000.000	J. 2804	239.8347	3319.5739	.327979-05	
	2:	- 530cm	3605090.000	6.2242	244.6162	3257.7108	216963-04	
3,	2	030.0000-	36636 00.000	6.5263	444.4595	3257.1163	186851-04	
₹.	7	000.0000.	36636 90.000	7.4865	242.8014	3179.7913	252773-04	
<b>3</b>	-,	000.000	3663000	6.2152	245.1067	3138.4504	152069-04	
<b>.</b>	7	0000000	35050 00.000	4.9624	244.3009	2979.4223	.235138-04	
4	57	******	34051 00.000	11.14.14	242.7399	2774.6054	.215490-04	
2	2	2000.000	3605 04.000	9.4340	243.0542	2914.5654	*0-196000	
Z,	2	- /6040 . GOG	340200.0000	4,60,0	258.4476	2955.3403	344245-05	
3	<b>5</b>	- /50to . 0 co	3405696.000	6.9943	236.2539	2948-5153	718493-05	
.2	~1	232.030vc	3642604.000	10.4219	240.8990.	2859.5656	.251458-04	
<b>`</b>	7	, <b>16</b> 00.	3605000.000	11.1769	235.2075	2833.9527	.331967-04	
4	2	216043.400	360,000,000	11.9926	250.3503	2765.7981	.127593-04	
£	13	070.0000	2645/11.3.000	12.3025	223.9067,	2476.1336	585313-05	
<b>?</b>	7	ころろでです。 むくじ	34051.00.000	11.9430	221.9363	2543.4658	119154-04	
:	-1	7.00.0.00	Yearena. 000	11.6350	221.9363	2543.4858	000000	

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JAIC VOILES	VORTICITY	. 12723-05 . 7470000 . 74700000 . 74700000 . 12723-05 . 127210-05 . 127210-05 . 127210-05 . 127210-05 . 127210-05 . 127210-05 . 127210-06 . 127210-06 . 127210-06 . 127210-06 . 127210-06 . 126000-06 . 1260000-06 . 126000-06 . 126000-06 . 1260000-06 . 1260000-06 . 126000	
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*** WIND FIELD, LAY,P HFIGHT, AND VORTICITY AT TIME STUP	DIRECTION (DEGAEES)	222.7645 222.7645 222.7645 221.7645 222.7645 221.7645 222.7645 222.7645 222.7645 222.7645 222.7645 222.7645 222.7645 222.7645 222.7645 223.2666 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.26664 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644 223.266644	
. AND VORTICIT	NIND SPEED (METERS/SEC)	9.1199 9.1199 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570 7.570	
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4	Ç	100.000r	3615000.000	9.1251	222.3544	2006.6118	.733376-05
7	ć.	700.0007	3615000.000	6.6659	221.0278	2906.0916	- 761363-05
•	<b>5</b>	3000000000	3615000.000	B. 0405	<19.2357	3056.1795	-49450S-05
n	15	320040.600	3615000.000	7.6902	219.1968	3123.0123	. 192042-05
0	51	330000.000	3615090.000	7.6340	220.5067	3129.5050	165537-05
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4	5	34.00.00.000	3615000,000	7.8167	222 12	3163.0366	-, 187575-04
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2	E.T	375000.000	3615000.300	5.6307	215-8274	3253.6782	. 106357-03
	-2	300000.000	3615080.088	5.5533	213.92.2	3274.1169	<b>40-600000.</b>
17	12	345000.000	3615003.000	5.3548	210.04	3291.8868	.29%782-04
•	15	00000000	3615000.000	5.1845	208.17+3	3291.4188	.244441-04
2.	7,7	3,5000,000	3615000.000	4.3669	206.7c.14	3310.5234	.265078-04
20	72	400000,000	3645000,000	2160.4	205.3430	3317.5650	. 3108: 9-04
21	15	403000.000	3615200.000	4.7306	204.5429	3336.8783	109101-04
25	101	410000.000	3615000.000	4.5213	204.3695	3331.5677	336352-04
23	15	415000.000	3615.000.000	4.2320	204.1867	3362,5772	385679-04
Š	57	420000,000	3615000.000	3.2441	209.2153	3434.0257	840450-04
Ç	15	4.5000.000	36156PU.000	3.9116	225.1696	3361,2510	611316-05
25	C.T	4,00000.000	3615, 00,000	4.6.900	233.8723	3357,3621	.272674-04
27	51	4.35040.040	3615000.000	4.9153	245.7744	3363,3665	.418165-04
20	72	4.0000.000	3615000,000	6.8926	247.6988	3277.8616	.723513-
52	15	445000,040	3515003.090	4.7932	243.6781	3013,4135	331043-04
36	15	410000	3015000.000	16.9942	240.4221	2860.4315	762140-05
4	15	55000.000	3645000,000	11.7016	234,2502	2768.0482	-104403-04
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DAIR COLLES	3.00568 HOURS)	VORTICITY		. 506928-05	.679440-05	.474762-05	111189-08	237659-05	1n1771-04	40-000151	254027-04	D-1/2022		90-01966	50-702102	50-945022	50=162/61		######################################	10100000	125599-04	. 363570-04	.401578-05	.2412.0-04	264173-04	869408-09	195353-04	*0-10100*	261040-04	. 502067-04	\$0-80 \$0.0°	40-06001	CD-/ CZZCD	10-90911*-	60-962066	. 244061-04	.213116-04	. 155595-04	461014-06	134615-05	246687-05	000000
	79 ( 3.00568	LAYER HEIGHT (METERS)	2859.8105	2859.8105	2901.0547	3055.9366	3125.6490	3133.5764	3139.6922	3146.6271	3150-4572	2166.5202	2000.0000	2830.5738	0000.000	9///-9/76	7100.00%	1100.1001	1206.7788	1206.0706	3314.1665	3327.1826	いろからいのかり	3470.6797	3359.0174	3403.9262	3396.7311	3322.8919	3077.6139	2830.7196	2/61-6666	2691.2330	/996 / 797	2637.3308	1624-1112	2573,3542	2448.9803	2422.0963	2478.1602	2.54.4042	2079 - 4702	2224.6304
. ,	WIND FIELD, LATER HEIGHT, AND VORTICITY AT TIME STEP	DINECTION (DEGMEES)	221.8950	2 2 4 . #950	220.4734	216.7641	218.7316	219.7816	220.5852	221,4339	222.5765	3904-712	229.3608	241.4390	0000.022	9000:012	200 000	207.1768	244, 2446	1000 - 1000 1000 - 1000	202.6782	202.0893	198.5867	169.2108	204,3562	229.0025	235.1136	540 . 047	237.6293	241.6164	238.304e	236.6233	L/157.752	233.0268	252.1993	234.6536	236.5962	225.6119	223.6308	223.3091	272.3405	222.3405
	. AND VORTICIT	#IND SPEED (METERS/SEC)	9.1438	9.1436	6.6413	6.0130	7.6486	7.5694	7.4924	7.404.	7.6308	0 # ED * /	11.1769	8.3203	2000	7606.	C100 4	7444		5.1618	\$0.96.4	4.7291	4.6967	3.2071	4.1716	3.4577	4.4147	5.9146	9.2239	11.1773	11.000	12.5106	9909.71	12.3483	9166-71	15.0625	13.7861	13.6833	13,3649	12.3833	11.6568	11.6%6
	. LATIN HEIGHT	Y CUORDINATE (METERS)	362000.000	3620000.000	3620000.000	3620000.000	3640000.000	3640000.000	3620000,000	3620000.000	3620000.000	3050000,000	3646000.000	3620003.000	362000.000		200000000000000000000000000000000000000	342000000000000000000000000000000000000	362,000,000	3670000.000	36200no.000	3620000.000	3620000.000	3620700.000	3620000.000	3640000.000	3620000.000	3620500.000	204000.000	362000 0000	300000000000000000000000000000000000000	3644400.000	204000000000000000000000000000000000000	200.000.000		3620000.000	362000000000000000000000000000000000000	3620700.000	3620000.000	2040000.000	3645573.000	3640000.000
*	WIND FIELD	X CUOPDINATE (METLRS)	1.0000.000	100000.000	20000.000	30000.000	3,00000.000	330000.000	325000.000	340000.000	345000.000	220000.000	25500" . 260	200000000000000000000000000000000000000						070 070 Y	4.0000.000	4.5.00.060	# 100cm . 000	415000.000	4<00000.000	*<5000.000	* 30000.000	+ 350c0 . 000	00000000	**5000.000		202.0000	300.0000	300.0000	2000000	475000.000	*****	0000000	210340.000	220000.0000	200000000000000000000000000000000000000	1000000000
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. The FIELD LATTE HEIGHT, MIN WATELITE AT ITME STEP 131 ( 5.00499 HOURS) ..

VORTICITY	000000	.257611-07	628045-06	213740-05	441411-05	724703-05	119025-04	132470-04	139601-04	131711-04	107027-04	B' B1 30-05	9:5793-05	50-60-60-0	464964-05	89591 3-05	-, 866878-05	/19335-05	641885-05	576217-05	518455-05	447250-05	351671-05	195739-05	CAPOCA	.515601-06	.772354-06	. 555886-06	559670-07	102080-05	229461-05	367771-05	481092-05	62245 <del>6</del> -05	715983-05	. 667113-06	. 254133-05	. AL7544-05	80-2450FB.	.636258-06	000000
LAYER HEIGHT (METERS)	2874.5110	2874.5116	2876-0273	2674.2185	2864.2191	2844.3952	2835.8523	2830.7369	2833.1570	2847.4533	2872.8518	26%.1615	298e.171	c966.7457	<b>2905.7437</b>	2905.7028	2964 . 1232	2900.+890	2895-1376	.004.90%	2062.1705	2675.3649	. Bev. 4863	2067.1003	4864.5988	2865. 1643	2862.4137	2658.9758	2854.9606	2851.0568	2047.3925	2843.6242	2840.4807	283m.0984	2839.9593	2841.6099	2843.8673	202-202	2841.5916	2837.3872	2637.3672
UJRECTJUI (DE GAÉES)	225.4661	225.4661	1869.677	240.2236	247.0496	241.9753	224.717	*******	2/4.6226	229.5024	429.1055	243.4623	243.2722	228.4975	224.842	429.1861	229.5616	229.9874	230.4495	234.9236	231.38%	7679.157	232.1952	232.4147	232.4776	232.4895	234.5421	432.6356	232.7522	232.8912	7,450,652	233-2515	<33.402S	233.6502	4770.652	- 1432-9A42	The state of	254.7238	231,2055	230.25Th	230.257h
HIND SPFEL HETCHS/ACH	9.2741	9.2741	¥.2765	251.6	7.107	× 2379	4.274	7.2545	9.2020	*1.0.5	1566.0	6.751.	5.454.3	6.5430	0.5%00	19.5147	6.493	6.4955	0.5100	1615.0	<b>9.5604</b>	4.5932	4.6274	0.6442	£645.0	10.56.0	6.6714	1,64.0	0.7265	υ. 74 o.3	6.7703	T6 47.0	4.56.4	6.5100	0.7976	6.1713.	6,C314	4°00'6	1665.6	4.3747	4.57.7
T COUNTINTE (AETENS)	347.000.000	34.Linus 666	3460000	14人じょうしょの00	34 CULIU . 000	344.01.70.400	34とひいのう。100	34411.00.000	346.000.000	3465ついっしつ 345	2443170.000	14cu: 4u.000	3460 190, 200	3446 3.030	342000,000,000	34201 60.000	344-11 00.000	34461 715. AGG	3420103.000	34201 110.729	34といういっちょうの	3420003.039	3443.9.03.000	3462500.003	542 v. no. 200	342000.000	34cc FJ. 300	3440113.030	3421, 114, 338	3441, AC. 000	344.7 100	54et. n. 000	5420 J. 000	344.01 F. J. 900	3440.16.0.000	3640. 1.0.000	2 4444 ( 44,049	344.01 (10,000)	33. L. 1. 1. 1. CC3	3.44.7 (111.09)	34.00 00.009
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X IINCA	r Index	A CUMPATIBAL	T COLONIAN	eles SPESS	J INECT 1011	LAYER HEIGHT	VORTICITY
~	7	1-6745)	(4,1625)	INC PERSOSECI	(DEUNEES)	(METERS)	
7	7	1,0060.000	Manages. 120	9.1646	225.6649	2669.6422	000000
	~	140030.000	<b>20000.00</b>	3.156 5.156	225.0649	2889.6422	. 7556Vs-06
7	~	20000.000	726000.000	9.0818	225.8766	2096.1004	.176435-06
•	~	7,0000,000	Weepen. 000	9.9587	226.3591	2903.6470	142950-05
n	<b>~</b>	3200c0 . 000	2000.00000	6.0568	227.0926	2905.9774	
•	~	770000 - 600	700000000000000000000000000000000000000	•	227.9135	2902.3677	
~	<b>~</b>	772000.000	3500000.000	•	228.7073	2896.0970	154711-04
•	7	746 650 . 000	2360000.000	9.7258	229.6373	2887.4025	166174-04
• ;	٠, ٠	2.00co.000	3540000.000	•	230.7599	2869.1575	- 152.12d-0
2	•	200000	3200000.000	8.7623	231.9538	2828.6881	996857-05
=	~	2550c0.000	3200000.000	8.7062	232.1594	280A.7255	いの一ののののシャ・・
3	~	760000000	3500000.000	8.4422	230.2894	2867.1515	614780-05
2	~	20co - 00	3500000,000	6.1377	228.9663	2940.9470	94046
2	~	27 200.000	3500000.000	6.0257	229.1343	2962.4123	-,112407-04
2	7	375600.660	3500000.000	6.0010	229.7918	2960.4732	101504-04
-	^	2000.00000	3500000.000		230.3477	2960.8595	660367-05
17	m	345000.000	3500,00,000	. 7.9528	230.8638	2960.7581	694402-05
2	•	390000.000	35000ng,000	7.9506	231.4345	2958.4631	550730-05
67	~	395000.000	3500000.000	7.9647	232.0441	2952.1288	80-044B64°-
2	n	*c0000.000	3500000.000	8.0028	232.7188	2941.2222	355696-05
<b>5</b>	n	4650c0.000	3500000,000	8.0533	233,3785	2928.4532	536956-05
2	•	*10000.000	3500000.000	8.1968	234.0618	2915.2165	259961-05
2	~	*15000.000	3500000.000	8.1928	234.7663	2694.9011	120865-65
*	~	4260uG.000	35u0000.000	6.2923	235,5013	2868.2817	.134070-05
\$	••	<b>*25000.000</b>	3500000.000	8.349¢	235.6381	2856.2226	.214234-05
ટ્સ	~	\$3000.000°	3500000,000	6.3457	235.4636	2061.7697	. 213272-05
27	m	* 55000.000	3500000.000	8.3531	235.4144	2665.9750	. 164031-05
2	-1	0000000	3540000.000	6.3985	235.5051	2864.4555	.101784-05
2	n	***SOCO . DOO	3500000.000	6.4295	235.6453	2862.1503	.250699-06
3	~	450000.000	3500000.000	8.4764	235.6242	2856.8545	762590-06
7	~	**************************************	3500000.000	6.5252	236.0519	2854.0113	201964-05
4	7	+600.0.00.000	3500000.000	0.5625	236.2343	1853.0180	363071-05
3	*1	*65000.000	3500000.00¢	9.6087	236.5047	2850.7670	+ 63696-05
3	•7	470000.000	3500000.000	8.6867	237.0045	2836.6967	474486-05
2	•	475000.000	3500000.000	6.7455	237.2097	2627.726	307172-05
3	~	+50000.000	3500000.000	9.7460	236.9301	2838.7945	.527713-05
5	~	4 40000.0000	3500000.000	9.9136	236.1015	2652.6901	.114646-04
2	n	510000.000	3500000.000	9.02%	234.3275	2653.7531	.923428-05
\$	~	550000.000	3500000.000	9.2827	232.0672	2843.7216	. 334240-05
<b>?</b>	~	000.00000	3500000.000	9.446	230.5320		636680-57
;	7	710000.000	3500005.000	9.4466	230.5320	2833.5071	000000

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5.00499 HOURS)	EIGHT VORTICITY	.000000			_	•		_				146 .626990-05	193684257-05	130563-04	•		542478361-05	•			•					10-00-00-00-00-00-00-00-00-00-00-00-00-0			•	_		111 541827-05		20-140101 461		_				•
131 (	LAYER HEIGHT (METERS)	2911.7972	2911.7972	2926.2155	2960.7509	2989.7660	3012.7161	3027.2667	3052.6065	3056.9511	3070.6111	3158.2840	2901.7893	3046.3484	3092.4412	3090.5551	3094.2642	3096.3764	3100.1190	3099.927	3110.2535	3100.2932	3200.2300	0/67*0000	1014.4299	3041.6612	3046.5854	3035.8311	3027.0657	3010.2573	3008.3702	2988.0011	2957.6583	2965.2794	2938.3340	288A.6598	2915.2321	2895.8206	2834.3116	2813,7545
TY AT TIME ST	JINECTION (NEGHEES)	225.9169	225.9169	226.0809	226.4572	226.9713	227.4336	227.6353	228-6798	229.6574	251.7234	236.7607	236.2746	230.8057	230.7172	231.6846	232.4736	233.1757	233.7634	234.2468	255.0053	235.6261	2/40-062	437.7414 64.0414	724.007	739.8947	234,6900	239.6544	240.0827	240.2942	240.6582	241.0605	240.9207	241.5322	242.5737	241.5810	239.4949	236.4572	232.8491	230.4000
T. ALLO VOTTICE	WIND SPEED (NETERS/SEC)	8.9953	6.9953	6.9423	8.5890	6.3203	8.0998	7.8992	7.7180	7.6044	7.6721	8.5279	6.7667	7.5496	7.2850	7.2243	7.1852	7.1664	7.1578	7.1673	7.1659	1.62.1	7.02.73	0017	1.0404	8.0420	8.0125	6.0649	6.1263	8.1920	8.2946	6.4079	6. MASG	8.5251	4.9491	4.9847	6.9413	9.1hp7	90.4.00	9.6392
** KILLD FIELD, LAYPH HEIGHT, AND VOTTICITY IT TIME STEP	Y COOP HIMATE (MCTEMS)	3540000.000	35+0000.000	3546663.000	3340CAU.000	35+0000.000	3540000,000	3540000.000	3546000,000	3540000.000	3540000.000	35+0000 000	3540000.000	2546666.000	35#00mg . 000	3340000.000	324000.000	35400ng .000	3340000.000	204000000000000000000000000000000000000	3340006.000				3540000	3540000,000	3540000,000	3544900.000	3540000.000	3540000.000	2540000,000	3540000.000	3540006.000	254 0000 . 000	3546690.000	3540000,000	3540000.000	3540000,000	3540000.000	3540000,000
. EL.O FIEL	X CJOKUTHATE	1.0000.000	10000.000	20020.000	200000.000	3.0060.000	330000.000	325040.000	240000.000	2+2000.000	350000.000	255000.000	200000.0000	302000.0000	2/0000.0000	3/5000,000	Sedena non	2000.00000							2000 BOOK	430000.000	435040.000	**0000.000	*+5000.000	450060.000	405000.000	160000000000000000000000000000000000000	1650cg.00G	+ 700c0 . 000	475000.000	460000.000	# 30000 0000 W	2106.00.000	2500v0.000	6.00000
	T INDEA	,	*	#	,	.*	*	,	•	*	<b>*</b> .	•	•	• :	•	• :	<b>.</b>	* :	•	• .	• :	a.	• 4	•	•	•	*	*	*	•	<b>*</b> :	*	•	•	*	*	ŧ	*	*	*
	X Lane	4	v	7	₽.	n	•	~	•	<b>.</b>	2:	3	۲.	3.	<u> </u>	0 1	•	4	9 3		, r	18	:	3 8	1	2	27	ş	8	3	7	4	2;	\$	ŝ	3	'n	3	\$	3

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LAYER MEIGHT (METERS)	2927.2531	2927.2531	2949.5015	3004.5245	3055.6651	3100.5095	3131.3890	3173.0022	3175.3459	3163.2728	3265.5215	2876.9442	3119-1050	3191.0448	7164.2477	1224-/015	3195.0084	3194.6461	3208.9609	3194.2170	3208.1393	3164.2646	3216.1214	3115.7861	3104.0804	3119.6126	3109.0936	3100.0202	3077-1349	3674.4627	3048.3305	3005.2936	3037.6772	2956.1004	2884.8051	2929.9815	2897.1408	28co.1069	
LIKECTION (DEGKEES)	225.9304	225.9304	226.0333	246.2516	540.4659	226.4740	226.4429	227.1111	220.1330	230,3615	230.7363	239.1052	231.5486	231.8046	233.3340	1007.507	2.55.4.739	230.7148	236,3184	437,0320	< 37,6015	238.5075	240.700B	244.6928	242.4269	242.3199	2+2.7107	243.120n	243.4903	244.0763	244.7919	<**.0301	440.044	c40.1146	244.6681	241.7189	237.524A	232.7149	
MIND SPFED (METERS/SEC)	8.8410	9.4610	9.6404	<b>6.26</b> 61	7.9546	7.5033	7.1485	6.9403	6.4325	0.9723	6.4174	8.7715	7/8.0	0,45.0	C#CC.0	40.0.0	6.5526	p.55u3	6.6139	6.7132	6.7A11	6.9PJ	7.2916	7.9303	7.1139	7,7435	7.8302	7.9104	06.00°0	46.1.0	25 FF .0	6.31cc	0.6214	9.3724	9.3541	4.2130	ナコオオ・ブ	7.740A	
r COOFFIRATE	35.00000.000	350000000000000000000000000000000000000	3500000.000	3500000.000	35out no.000	3760500.000	350UCAJ.000	3 300000 0000	3500000.000	3,00,000,000	3700100000	350000000000000000000000000000000000000	000.00.0000	000 - 000	350000000000000000000000000000000000000	3550: 10:000	3500,00,000	3500(11,0000	3561(00,000	35-65 00.000	25001 00.000	3500 00,000	3500000000	3500000.000	35000000000000000000000000000000000000	350cf nu.000	3501 110 USO	1500 Per F00	100 mil 110c	יייי ייייי	15c( . nr . 190	1,000,000	, ye i ' ' ' ' ' ' ' ' ' ' ' ' '	5,00,00,000	3501. "4. 100	3500-1-10050	1,200,000,000	350cm 1 2000	
A COORDINATE ( .ET.RS)	100000.000	1,0000,000	446630.000	3.30000.0000	370030.000	376000°000	225600.000	346025.000	1.50J0.000	226620.000	3:50×0.0u0	3700000	000.000000	000000000000000000000000000000000000000	3,000,000,00	0.0000000000000000000000000000000000000	230000000000000000000000000000000000000	345000.000	1000ch - 000	4020n0.000	000.00001.	415( v0.00n	17000C+	* . Suct. Oud	110.0000-	*350u0.0c3	300 C030+	3 13 10 10 11 11	10000000C	こうつ・しょうしょつ・	C+ 3/ 400+		CO0.0000	./S60f.ve.	300.3000.	010 - 1105¢+	3.06.00.000	619.001655	
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X 1.4-C.	•	J	,	,	'n	0	~	0	~	7	-	۲.	2.	<b>,</b>		2 -		2	7	4,7	7	3	7	Ç	çç	-	ķ	<b>V</b>	4	4	4	3	į	.3	4	~	7	ş	

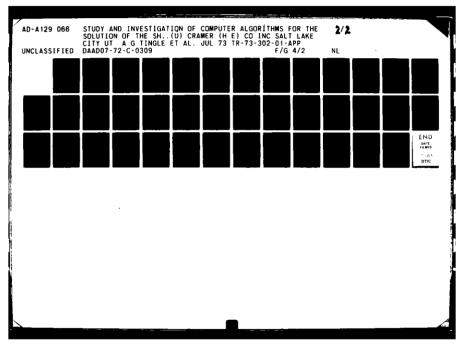
### \$570.000 ### \$175	lians 1 laks	A CABOLIATE	1 COCKPILATE	WAIN SOFED	OINECTION OFFICEFECT	LAYER HEIGHT	VORTICITY
1,000,000   3570,000,000   1,175   225,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521   252,521							
	•		000	70.00	C13C+C37	6267.3609	
### 14,000.000 3570.000 6.7943 225.4998 3898.1898.1899.1899.1899.1899.1899.1899.	r		200000000000000000000000000000000000000	0.31/3	C13C*C37	6076.1267	CD-219-6/ .
	•	800.0000	31765	6.5443	225.5570	2955.3613	. 950833-05
a         SAGE GRAPH	٥		3573000.400	6.0439	Z22.6037	3024.0364	111902-04
a         1,174         220,0918         1180,7918           a         1,5504,000         15,7000,000         6,5958         220,3879         1300,022           a         1,5000,000         15,7000,000         6,5958         220,3879         131,02,02           a         1,5000,000         15,7000,000         15,5000,000         15,5000,000         15,5000,000           a         1,5000,000         1,5000,000         15,5000,000         15,5000,000         15,5000,000           a         1,5000,000         1,5000,000         1,5000,000         1,5000,000         1,5000,000           a         1,5000,000         1,5000,000         1,5000,000         1,5000,000         1,50	•	24.000.600	35701.00.009	7.6523	225.4988	3064.166	.122131-04
3 195046,444 3470477,700 0 0 4455 222,338 3144,342 225,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	303.003600	3570000000	7.174	425.0918	3144.7810	103464-04
	•	235006.600	3573600.000	0.4455	224.9581	3166.3622	195285-05
	•	300.0000.	3570660.000	6.5958	226.3130	2 3 7	788539-05
	^	100.0000	357000.030	6.5584	262.8779	315. 1922	101396-04
1,50,00,0,0   3570,00,000   0.18,9   230,3186   3311.2.2   0.25,000,000   3570,000,000   0.3993   239,322   239,326   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,222   318,22	•	000.00000	3576:00.000	0.6640	227.5106	317	33-96-96
100000.000   357cm0.000   6.399   6.39.912   2876.20   2876.20	•	300.00000	35777794.000	6.1939	230.3106	3311.22	119200-04
6 105000.000 357000.000 0.7442 231.1320 3150.5220 0 270000.000 357000.000 0.1553 235.5233 3222.5223 0 250000.000 357000.000 0.2764 235.1220 3222.5223 0 250000.000 357000.000 0.2764 235.4132 3222.5231 0 235000.000 357000.000 0.2764 235.4132 3222.5231 0 235000.000 357000.000 0.2764 235.4132 3222.5231 0 235000.000 357000.000 0.2763 235.4133 3227.0000 0 245000.000 357000.000 0.2763 235.4133 322.0000 0 245000.000 357000.000 0.2763 235.4133 322.0005 0 245000.000 357000.000 0.2763 24.5200 322.0000 0 245000.000 357000.000 0.2763 24.5200 3122.0005 0 245000.000 357000.000 7.6443 24.54133 3122.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 7.6443 24.5602 3120.0005 0 245000.000 357000.000 0.3763 24.5602 22071.000 0 245000.000 357000.000 0.3763 24.5602 220.0005 0 25000.000 357000.000 0.3763 220.0005 0 25000.000 0.3700.000 0.3700.000 0.3700.000 0 245000.000 357000.000 0.3700.000 0.3700.000 0 25000.000 0.3700.000 0.3700.000 0.3700.000 0 25000.000 0.000 0.3700.000 0.3700.000 0 25000.000 0.000 0.3700.000 0.3700.000 0 25000.000 0.3700.000 0.3700.000 0 25000.000 0.3700.000 0.3700.000	9	300000.000	3570.00.000	59393	<39.0522	2876.3076	961954-05
2700-0-006   3570-0-000   0-1825   231-9127   3820-2829   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-5293   281-52	¢	2~50.0.000	357000,000	6.2A04	231.1320	3260.9240	20-1063.T.
STOUCHOUR   STOU	٥	2700-0-000	3570-00.000	2.0442	231.9127	3234.2823	198729-04
6 5000000000 557000000 6.2543 254.5243 3222.5741   250000000 557000000 6.2543 255.4174 3228.7954   250000000 557000000 6.2774 255.4183 3228.7954   250000000 557000000 6.2774 255.4183 3228.7954   250000000 557000000 6.2774 255.4183 3228.7954   2500000000 557000000 6.3742 255.6364 3234.0094   2500000000 557000000 6.3742 255.6364 3234.0094   2500000000 557000000 6.3742 255.6364 3234.0094   2500000000 55700000 6.3743 244.2893 3143.7299   2400000000 55700000 6.5739 244.2897 3140.0091   24000000000 55700000 7.5519 244.2897 3140.0091   24000000000 55700000 7.5519 244.2897 3134.0095   2400000000 55700000 7.5519 244.2897 3134.0095   24000000000 55700000 7.5519 244.2897 3134.0095   24000000000 55700000 7.5519 244.2897 3134.0095   24000000000 55700000 7.5519 244.2897 3134.0095   24000000000 55700000 7.5519 244.2897 3134.0022   2400000000 55700000 0 20000 7.44.2897 244.2897 3134.0022   2400000000 55700000 0 20000 7.44.2897 244.2897 3134.0022   240000000000 55700000 0 20000 7.44.2897 244.2897 3134.0022   24000000000 55700000 0 20000 7.44.2897 244.2897 3134.0022   24000000000 55700000 0 20000 7.44.2897 244.2897 3134.0022   24000000000 557000000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0 20000 0	0	375046.060	3570t-nJ.000	6.1273	233.5934	1219.0690	251040-04
6         205000.600         357000.000         6.274         235.4174         328.7617           9         35000.000         357000.000         6.374         235.4174         328.7617           9         45000.000         357000.000         6.3442         235.436         328.000           1         45000.000         357000.000         6.4449         236.1350         324.000           1         45000.000         357000.000         6.4449         236.1360         324.000           1         45000.000         357000.000         7.1511         245.4143         319.000           1         45000.000         357000.000         7.5141         245.4143         319.000           1         45000.000         357000.000         7.5141         245.4143         319.000           1         45000.000         357000.000         7.5141         245.400         3125.309           1         45000.000         357000.000         7.550         245.400         3125.000           1         45000.000         357000.000         7.550         245.400         3125.000           1         45000.000         357000.000         7.550         245.400         3125.000           1	3	300.0000	357600.000	0.1559	254.5293	3222.5751	20-14564
370040.000 3570500.000 6.2533 235.4174 3228.7417 2.35040.000 3570500.000 6.4449 236.6364 328.0090 4.5040.000 3570500.000 6.4449 236.6364 328.0090 4.5040.000 3570500.000 6.4449 236.6364 328.0090 4.5040.000 3570500.000 6.4449 236.6360 328.0090 4.5040.000 3570500.000 7.5049 243.642 3132.0605 4.5040.000 3570500.000 7.5049 243.642 3132.0605 4.5040.000 3570500.000 7.5519 243.642 3132.0605 4.5040.000 3570500.000 7.5519 243.642 3132.0605 4.5040.000 3570500.000 7.5519 243.6402 3132.0605 4.5040.000 3570500.000 7.5519 244.2697 3140.0312 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 244.2697 3120.3094 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5519 240.3510 200.4417 4.5040.000 3570500.000 7.5510 240.3510 200.4417 4.5040.000 3570500.000 7.5510 240.3510 200.4417 4.5040.000 3570500.000 7.5510 240.3510 200.4417 4.5040.000 35705000 7.5510 240.3510 200.4417 4.5040.000 35705000 7.5510 240.3510 200.4417 4.5040.000 35705000 7.5510 240.3510 200.4417 4.5040.000 35705000 7.5510 240.3510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 35705000 7.5510 200.4417 4.5040.000 3570500 7.5510 200.4417 4.5040.0	·ə	305040.660	3570000.000	6.2004	235.1284	3226. 25 X	. 313707-04
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3570000.000 6.3402 235.6364 3247.0404 2350000 2350000 2364.0000 3546.0000 8.5739 236.1350 3248.0000 8.5739 236.1350 3194.1775 3570000 0.0000 236.1360 3194.1775 3570000 0.0000 24.3463 3152.2499 31570000 2570000 24.3463 3152.2499 31570000 2570000 24.3460 3150.2499 31570000 2570000 24.3560 3150.2499 3157000 2570000 2570000 24.54000 3150.2499 3157000 2570000 24.5400 3150.2499 31570000 24.3500 24.5400 3120.3004 3157000 2570000 24.3500 24.5400 3120.3004 3157000 24.3500 24.5400 3120.3004 3157000 24.3500 24.5400 3120.3000 2570000 24.3500 24.5400 2570000 2570000 2570000 24.54000 24.5400 24.5400 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 2570000 25700	٥	000.000ki	35761.00.000	6.2774	235.4143	3228.9566	.319227-04
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3570710.000 b.5739 230.6306 3248.0074 3570700.000 b.6600 240.6180 3194.1775 35707010.000 7.3043 240.612 3183.7299 35707010.000 7.5519 240.6402 3132.0605 35707010.000 7.5519 240.6402 3132.0605 35707010.000 7.5519 240.6402 3130.6227 35707010.000 7.5519 240.6402 3120.324 35707010.000 7.5519 240.65670 3120.324 35707010.000 4.0323 240.65019 35707010.000 4.0323 240.6226 3010.5919 35707010.000 4.0323 240.65019 35707010.000 4.0323 240.5019 35707010.000 4.0323 240.5019 35707010.000 4.0323 240.5019 35707010.000 4.0323 240.5019 35707010.000 4.0323 240.5019 35707010.000 10.1345 225.1349 2710.3424 35707010.000 10.1345 225.1349 2710.3424	9	000°010°1	357000.000	6.44.0	256.1550	3234.0090	.277166-04
3570C00.000	0	370°C 30°C 4	3570110.000	6.5739	230.6386	3248.0074	.241211-04
3570(10,000 7.1511 240,1612 3252,3463 3570(10,000 7.514 2.43,4143 3143,7299 3570(10,000 7.5519 2.43,4143 3152,2899 3570(10,000 7.5519 2.43,6402 3150,1895 3570(10,000 7.5519 2.44,2697 3140,0312 3570(10,000 7.4519 2.44,5470 3126,3044 3570(10,000 4.3513 2.45,1266 3126,3944 3570(10,000 4.3513 2.47,1266 3016,5919 3570(10,000 4.3513 2.47,1266 3016,5919 3570(10,000 4.3513 2.45,5663 2877,4456 3570(10,000 4.3513 2.42,5663 2877,4456 3570(10,000 10,1345 2.42,5663 2877,4456 3570(10,000 10,1345 2.42,5663 2710,3424 3570(10,000 10,1345 2.42,5663 2710,3424 3570(10,000 10,1345 2.42,1349 2710,3424	٠,	070°000°14	3570,00.00,000	6.660u	238.1180	312.1775	.241419-04
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3570(fu.003 7.5519 243.6402 3150.1895 3570(fu.000 7.552) 244.2697 3140.0312 3570(fu.000 7.7519 244.5470 3120.3247 3570(fu.000 7.4515 245.1266 3090.4417 3570(fu.000 4.9245 245.1266 3090.4417 3570(fu.000 4.9245 247.1266 3016.3919 3570(fu.000 4.9245 247.6226 3016.3919 3570(fu.000 4.9245 247.6226 3016.3919 3570(fu.000 4.9245 247.6226 2947.1022 3570(fu.000 4.9245 242.5663 2923.9418 3570(fu.000 10.1345 223.74456 2874.8459 3570(fu.000 10.1345 223.74956 2874.8459 3570(fu.000 10.1345 223.74956 2710.3424	£	090.000011	357001.0.000	7.64+9	2+3.3286	3132.0605	.840849-05
3570ff0.000 7.550 244.2097 3140.0312 3570ff0.000 7.7519 244.2097 3156.4227 3570ff0.000 7.9545 245.000 3125.3044 3570ff0.000 4.9545 245.000 3125.3044 3570ff0.000 4.9545 247.1266 3090.4417 3570ff0.000 4.9549 246.718 3090.4417 3570ff0.000 4.9549 246.718 200.0019 3570ff0.000 9.4045 246.5663 2923.9418 3570ff0.000 10.1345 245.5663 2710.3424 3570ff0.000 10.1345 222.1349 2710.3424	9	4.50cJ.000	3570000,000	7.5519	243.6402	3150,1895	.765224-05
3576/nu.003 7.7519 244.5470 3136.4227 3576/nu.003 7.9545 245.4670 3126.3044 3576/nu.000 4.0343 245.7766 3126.3044 3576/nu.000 4.0343 247.3266 3016.5919 3576/nu.000 4.9299 246.788 3016.5919 3576/nu.000 4.9299 246.3266 3016.5919 3576/nu.000 4.4929 246.3563 2923.9418 3576/nu.000 4.4929 242.5663 2923.9418 3576/nu.000 10.1345 222.1349 2710.3424 3576/nu.000 10.1345 222.1349 2710.3424	9	000.0000	3570000.000	7.5363	244.2097	3140.0312	. 521653-05
357urro.000	9	じつつ・ひつののコナ	35765.00.003	7.7519	2+4.5470	3134.0227	.242516-05
357ur Cc.000 d.u323 2.45,7706 3125,9193 357ur Cc.000 d.3711 247,1266 3016,4417 357ur Du0 b.4775 247,618 3016,5919 357ur Du0 0 d.9209 246,7418 303,3402 357ur Du0 0 d.9209 246,7418 2943,3462 357ur Du0 0 d.9209 246,7418 2943,3448 357ur Du0 0 d.9209 242,5663 2923,9418 357ur Du0 0 d.9209 242,5663 2923,9418 357ur Du0 0 d.9209 241,595 2710,3424 357ur Du0 0 d.9343 222,1309 2710,3424	•	100.00000	3570010.000	7.9545	245.0670	3120.3044	.104483-06
357cr f5.000 d.3cll 247.1266 3090.4417 357cr f5.000 d.4cg 24.526 3016.5919 357cr f0.000 d.4gag 24c.7418 3035.3802 357cr f0.000 9.4cg 24c.7418 2047.1022 357cr f0.000 9.4cg 24c.5663 2923.9418 357cr f0.000 9.777 22c.5663 2923.9418 357cr f0.000 10.1345 231.7455 2710.3424 357cr f0.000 10.3543 22c.1309 2710.3424	2	000.00000	357urrc.000	0.0323	4+5.7706	3125.9193	521570-05
c         +u50u0.ucc         357urno.000         u-4n75         247.6226         3016.3919           c         +fnuu0.000         357urno.000         u-92a9         24a.7418         3038.3802           c         +f0uu0.000         357urno.000         9.46b7         24a.936         2947.1022           c         +f0uu0.000         357urno.000         9.49y         24a.5663         287r.348           c         -f0uu0.000         357urno.000         9.49y         24a.5663         292a.9418           c         -f0uu0.000         357urno.000         9.49y         24a.5663         292a.9418           c         -f0uu0.000         357urno.000         9.49y         24a.5663         292a.9418           c         -f0uu0.000         357urno.000         10.1345         231.495         2710.645           c         -f0uu0.000         10.1345         225a.1309         2710.342           c         -f0uu0.000         10.5443         225a.1309         2710.342	c	100.000000	3570100.000	d.3011	247.1266	3090.4417	603048-05
# #7040.000 3572.000 3.9269 246.7418 3033.3602 # #75000.000 3572.000 4.9269 246.7418 3033.3602 # #75000.000 3572.000 4.925 242.5663 2877.3649 # #7000.000 3572.000 4.925 242.5663 2873.9918 # #7000.000 3572.000 10.1345 237.995 2878.9918 # #7000.000 3572.000 10.1345 237.995 2710.3424 # #7000.000 1577.000 10.543 225.1339 2710.3424	>	405040.000	3570110.000	6.4075	247.6226	3016.5919	-,161019-05
475000-000 3570-00000 9-3712 240-9764 2947-1022 6 -55000-000 3570-000 9-473 246-0336 2877-3-695 7 -76000-000 3570-000 9-473 245-0563 2923-9418 7 -76000-000 3570-000 9-773 237-456 2874-650 7 -76000-000 3570-000 10-1345 231-755 2710-3424 7 1000-000 7570-10-000 10-3543 2225-1309 2710-3424	•	+ /Au-0.0.0c0	3570' "0.030	6966.0	240.7418	5033.3802	585194-05
	7	**************************************	3570.00.00	9.3712	240-976A	2947-1022	982052-05
	9	370.01040+	357200000000	2.4657	240.0336	2877-3469	.357208-05
3572 06.000 9.773 237.4456 2874.4540 1572 06.000 10.1345 221.7355 2751.6451 1572 10.000 10.5443 222.1309 2710.3424 1577 10.000 10.5443 222.1309 2710.3424	6	1,000,000	3570100.000	C.404.0	244.5663	2923.9418	.727621-05
3570' 10.000 10.1345 £31.7555 2751.6451 5770' 10.200 10.3543 220.1509 2710.3424 7574 7574 2710.3424	•	130°6060*0	3575766.000	9.7775	237.4456	2874.4540	A69052-06
3570' no.000 10.0543 225.1509 2710.0424 757. 1.0.000 10.5443 225.1309 2710.0424	1	000.000000	157.1 00.000	10.13.45	<31.7355	2751.6451	874482-05
1571 10.000 10.5743 620.1309 2710.3424	•	170・673013	35701 00.000	10.3545	223.1539	2710.3424	105617-04
	3	71000000000	7571 THU. MOG	10.5543	420.1309	2710.3424	000000

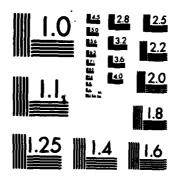
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		11014 P.1011	** NING PICED, LAYER PEIGHT, AND VORTICITY AT TIME	. AND VORTICIT	Y AT TIME STEP	131 ( 5.00499	5.00499 HOURS) **
A INUE>	Y JADEX	X COORDINATE	Y COUNTAINATE	WIND SPEED	JINECTION	LAYEN HEIGHT	VORTICITY
-4	7	():FTERS)	(MF 1F KS)	(AETERS/SEC)	(PEGREES)	(METERS)	
7	7	1.0000.000	35751 46.000	6.3315	224.8717	2917.9299	. 000000
J	~	160000.000	35.75000.000	8.8315	224.8717	2917.9299	.113026-04
,	^	240000.040	3575010,000	4.5274	224.8297	2950.0573	.140481-04
*	1	3000000000	3575::00.000	4.0124	224.7490	3025.2989	.166976-04
n	~	JC0000-000	357500.000	7.4569	224.3406	309R.2922	.179750-04
9	1	000000000000000000000000000000000000000	3575(110,000	7.1349	223.3637	3153.0619	.148586-04
~	•	J.550:10 . UGÜ	3575000.000	0.6179	<21.0845	3174.5890	.793322-05
٩	_	3,00,0000	35750AJ.000	6.6102	223.1129	3306.0009	.116224-04
,	7	3,5006.000	357560u.000	6.7383	224.5993	3199.6614	. 334887-04
7	^	30030.0000	357500.000	6.5341	222.8393	3171.5656	.278940-04
11	~	355600.000	35756-00.000	7.7593	237.4642	3332.4193	.198018-04
14	~	J.00.00.00.	3575000,000	7.8027	2+0.8250	2874.7438	.480887-04
2	~	3~50~0.00	3575(100,000	5.8566	230.1104	3149.6356	.671082-04
-	~	270020-036	3575000,000	5.6053	231.7276	3244.5797	.670966-04
51	^	375040.000	3575000.000	5,4713	232,3167	3214.6683	.579508-04
-1	~	000000000	3575000.000	5.4986	233.4658	3227.7084	,655107-04
1.1	~	3~5640.040	3575600,000	2.9926	234.1150	3229.1538	.617405-04
97	^	3,400,0,000	357500.000	6.0733	234.4182	3230.4210	. 556085-04
5.7	^	295030.000	3575únJ.000	6.1440	234.6490	3228.5334	.509953-04
30	^	+000cg.000	3575000.000	6.2 <sup>9</sup> 08	234.5212	3232.2811	*0-+5++9+*
7.7	~	+05010.000	357500,000	6.3578	235.0072	3218.2271	.454287-04
17	~	+ 100 · 0 · 00t	3575000.000	6.3501	235.2936	3224.7308	.367076-04
?	۴.	415000.006	3575010.000	6,4755	237.3191	3215.7442	.345189-04
*2	7	1<0000.000	357500,000	7.0401	1951.467	3223.7200	.249251-04
c?	,	1,5600.000	3575.00,000	7.4695	c+3.2746	3158,7590	.285086-04
Ş	7	+300v0.0v0	3575i.n., 000	7.3641	2+3.6182	3144.2967	.224498-04
7.7	7	1,50,0,000	3575 00.000	7.2935	2+4.5+61	3178.5240	.221208-04
<b>7</b>	~	740070.000	357% 00,000	20US-2	245.7960	5159.8025	.171177-04
2,	7	**50°6.000	3572100.000	7.65.20	440.3074	3124.4151	.970469-05
35	~	1.00 0 0 0 0 0 c c	35751 00,000	7.7380	440.7721	3112.0125	. 340807-05
7	~	9.36.00.000	3575, 00,000	7.0.44	<** 1.4366	3094.0736	.591851-05
4	7	•	2575: NO. 000	(Date)	246.4015	3065.2731	. 940689-06
3	~	445040.060	357500.003	3004.6	2+5.9968	3044.0759	.562714-05
\$	~	4,000.00	3575 00 000	2,5042	247.3089	2974.4647	236690-04
3	~	+750v0+0us	357500.000	10.17.18	247.5425	2861.0841	613161-05
ų	_	120.0000.1	3575694,000	4.71.3	247.0543	2800.8517	. 456 7 35 - 05
ñ	`	170.000066.	35751 60.000	4.77.37	245.1013	2890.0200	-0-0141 W.
36	7	300.5000.	3575.4 0.000	10.3594	237.2092	2833.6392	755045-6
,٢	~	1,710,00,000	35751 110.00	10.4693	230.7554	2704.6113	1 = 4 0 4 2 - 0 =
?	•	220,000	5770 000	16.5400	126.4622	2661.6293	193127-0
;	•	1,100,000 ac	35131714.000	10.5443	210.9222	2601.6293	700000

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An acoustreat notes.	
Mission extend Taxibid	

		es ulta Figu	D. LATIN EIGH	1. 2:40 VOPTICIT	. LIN FIELD. LAND AETGET. AND VOTICITY AT IIME STLP	131 ( 5.00499	5.00499 HUUFS) **
1	# 4 #	A COORDINATE (FETERS)	1 COUPLITATE	AIND SPECU (PETENS/SEC)	CIMECTION (DEGREES)	LAYER HEIGHT (METERS)	VORTICITY
	-	1.000.00.00.00.00.00.00.00.00.00.00.00.0	3500,000,000	A. 5431	724.2005		000000
v	٦	1,000,000	3540 000,000	6.84.51	224.2005	2908.7427	.124411-08
7	1	20000000	35000.00000	4.51.7	<<+.0079	2943.3483	148424-04
•	ຠ	300000	3500000.000	7,9277	223.9127	3027.9774	153046-04
n	,	07000.000	3546600.000	7.3566	223.3501	3108.3573	120585-04
,	۵	3,00000.000	1560/110.000	6.9469	221.9180	3155-1596	.272652-05
•	7	3550.0.00	35066110.000	6.1734	241.6598	3196.7939	158959-04
3	~	0.00000	35c4304.000	7.1535	219.8965	3200.5949	.978570-05
,	7	3,50,0,000	3507(110,1103	9.7634	C19.9347	3197.3967	221763-05
7	. •1	359603.000	3500000.000	0.5112	<15.0687	3166.4165	574640-04
11	,	155610.010	350000,000	7.8702	227.1976	3454.2321	887529-04
4	-	00000000	3500000	7.2103	240.9384	2953.6226	*0-2960***
?	~	3:550-0.000	3500000.000	5,1792	220.7128	3145.0794	*0-++0906.
-	T	3.1000.000	3560:11.000	5.2406	225,3334	3294,9679	.897567-04
15	٦	0.750.00.030	35cut 11.000	5.5700	<31.9297	3202.4586	. 88+304-04
20	~	300000000	3580(00.000	5.4607	£31.6396	3224,2027	+0-684788.
11	7	3,5000.000	35400 00.030	5.6495	< 32.8652	3232.5775	.896187-04
9	¬ງ	03000000	3500000000	5.794	<53.2722	3232,2149	.773345-04
7	-	2,5000.000	1586t nc. 000	5.4494	234.510A	3232.9649	.686314-04
7	τ.	100000.00C	35000.00.000	BF 50.0	233.9452	3226.1212	.593732-04
7.7	<b>v1</b>	405000.000	35evina.000	6.115.47	C.44.0743	3234.7362	.541023-04
77	~	500.00004	3500000	6.1947	434.6516	3250.1297	* #88343-04
G.	7	+15010.000	35061.00.000	2.31 49	230.5344	3233.6644	.393960-04
*	ᢏ,	4.3040. 60P	3500.00.000	4.7971	2~5.1371	3236.0035	.297792-04
7.	,	+_50c0.6ut	1562003,000	7.1394	7569.7.7	5197.9054	.231031-04
Ų	٦	300.0000+	35001 110,000	7.1645	244.6133	3179.2109	.278346-04
13	7	415044.800	35a61 nu.003	7.1933	245.450S	3196.3629	.268351-04
97	٠,٠	000.00000	35001 00,000	7.1943	Z + 5 . 9 4 7 9	3180. 346	.232034-04
63	•	4456.00.000	35001 110.003	7.49.1	444.5132	5170.9293	.155367-04
ş	7	4500ct . Occ	1560'.00.003	1.5722	1821 647	3136.4029	.126895-04
3	•	4550 JU 000	35,001 00,000	7.114.4	24.5 6573	3113.3035	597646-05
7,	•	** 06 v C · O u	35,000 113,003	7. 1440	5141. CZ	3076.7714	185931-04
,;		500.00000000000000000000000000000000000	35001.00.00	4.1534	1200>	3075.2495	.174479-05
4	•	10000.0001	35,000 113,000	10.1705	K + 0 + 1 545	<892.0135	256262-05
3	•	475000.000	32041 114,503	4.1335	< d.e358	<844.0457	- P10163-05
ર	•	てつき こりつりつつ	33ac. 00.000	1.5737	< 17.2016	2905.2404	.189592-04
ì	`	4 40f. cf. aloc	350-1/110-000	14.7230	244.0670	6780.087	.964144-05
3	,	2000-11001-11	Tron. 00.003	10. 14.5	<.30.7770	2529.0044	484672-05
ŝ	-	223420-606-	35007.00.000	10.7948	₹36.016A	2658.4975	148002-04
3		300000000000000000000000000000000000000	15001 10.600	10.75 12	<<0.1702.	2625.7036	162537-04





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

IrSka i Itu	to Flice	TERRAIN ANDUSTIENT NO. F	End no. Fa				UATE 061173	•
		oo vilde filele	U. LAYSP IEIGH	WILL FIELD LAYER HEIGHT, AND VORTICITY AT TIME	Y AT TIME STEP	131 ( 5.00499	5.00499 HOURS)	
X Irluch	Y BILDEA	A CUORUINATE	Y CUCKNINATE (ACTENS)	HIND SPEZO (NETERS/SEC)	DIRECTION (DEGMEES)	LAYER HEIGHT (METERS)	VURTICITY	
-	27	1.0000.000	359uf.00.000	6198.9	222.8006	2893.6743	, 900000	
<b>y</b>	7	1.5000.000	35400.00	6.9409	222.8606	2893.6743	140935-04	
•	.; <b>T</b>	2000000000	3540000.000	8.5341	221.9455	2910.4636	.146517-04	
*	7	210000.000	3536606,000	7.8637	221.6426	3042.7995	. 1054 30-04	
3	e <b>r</b>	220000.000	35yurn0.000	7.3471	241.0709	3127.3105	. 159913-05	
3	7	30000000	3590cn0.000	7.0341	220.7044	3177.5793	902154-06	
,-	61	335000.000	3596600.000	7.9603	219.6082	3200.2530	. 436950-05	
٥	3	340000.000	35500 00 000	6.2827	220.1336	3192.9721	50-406468.	
	3	345000.000	3590600.000	10,8501	221.2581	3191.3888	.913499-05	
7	3	350030.000	3596000.000	7.1711	223.7564	3179.9778	616061-04	
11	3	000.0000	3594000.000	6.3271	237.5198	3177.9197	114513-03	
75	10	3,00000,0	3590060.000	5.9693	235.4833	3136,3418	147624-03	
ÇŢ	2	225060.000	3550000.000	5.1013	<23.9358	3165,5876	689100-04	
<b>:</b>	?	000.00017	359000,000	4.6510	226.2687	3227,2909	176767-04	
4	CI	375030.000	3550000.000	4.5736	227.5266	3235.4772	.269891-04	
7	7	300000.000	3590000.000	4.6135	228.2390	3234.7945	.663211-04	
71	3	2~5000.000	3596000.000	4.720	226.9180	3243.0977	,933208-04	
10	7.7	3.90000.000	35%00000000	4.3103	227,7537	3223.0115	.100589-03	
57	70	3950.0.000	3590000.003	5.1465	231.1844	3346.0849	.996176-04	
25	2	400000	3590000.000	5.6686	232.8050	3217.1274	.896315-04	
77	2	+U50+0.000	3550000,000	5.3779	231.1221	3255.7454	.761261-04	
7	2	300.0001+	3596003,000	5.4663	232.6821	3261.6660	.641660-04	
\$	70	415000.000	359000, 000	5.4852	233.7729	3244.9850	.573396-04	
**	7	********	3550600,000	6.0002	237.8710	3335.4864	.411356-04	
2	G.	445060.000	3550000.000	0.2963	245.3776	3206.3260	389794-04	
Ş	71	430000	3540000.000	6.9217	c40.7244	3232.4995	.217355-04	
, <u>, ,</u>	64	+35000.000	3592640.000	0.2614	249.5011	3255.0885	.297519-04	
ş	7	300.0000++	3590500.000	0.6A46	247.617	3226.5170	.236771-04	
\$	<b>1</b> :	337.0005***	3556500.000	6.6449	251.8935	3213.4120	.457292-04	
3	7	000.00000	3542504.000	7.0935	253.5612	3119.9646	.260310-04	
. 7.	1.1	4.5000.000	3590000	7.9496	221.4825	3165.0848	.166564-04	
4	7	400000.000	2596663.000	9.7518	247.8058	3001.0306	. 779384-05	
4	7	200.00000	3590100.000	10.0400	240.6261	2841.3779	.213661-04	
3	7	-70000.ulo	3542006.000	9.67.39	240.799A	2922.5004	.140778-04	
વ	7.	+ /5600.000	3590000,000	10.3336	244.0364	2925-1765	.326975-04	
.3	7	020.0000	35%6000.000	10.9458	24.6841	2762.0156	.247630-04	
• • •	24	000.00000	3596000	10.4110	240.5972	2806.7899	.146662-04	
ૠ	77	0000000	35% 000.030	11.7623	235.2664	2765.3088	296376-05	
ş	7	640.000cc	35>000.0000	11.3443	226.8435	2571.2782	169675-04	
3	7	0.000J. JED	3596000000	11.5310	224.7802	2551.1939	190132-04	
÷	3	7106uG.dei	35.20 00.000	11.5416	24.7602	2551.1939	.000000	

X ItaniX						150000 66400 00 00 101	
· ~	1 Back	X CORDINATE (-IETERS)	Y COUPINITE (PICTE AS)	HIND SPECD LAETERS/SEC)	UTHECTION (DEUMEES)	LAYEM HEJGHT (METERS)	VORTICITY
•	17	1,00000,000	354500.000	11111111111111111111111111111111111111	222.2633	2888,4480	.000000
٧.	1	10000000	3595000.000	8.1340	222.2003	2868.4480	142499-04
•	11	C-00000-2	35%,300,000	. 6.5463	221.0645	2893.3050	.140246-04
*	77	200000.000	3595000.000	8.3451	219.5186	3055,7259	.108455-04
n	11	3<0000.000	3595000,000	7.0042	216.3864	3143.2050	.657019-05
• 0	11	5500.0.000	35,500,0000	7.2705	216.5302	3212,2043	.524596-05
~	11	325060.000	359500.00	7.1.197	218.7425	3179,5739	151038-05
a	11	3-0000-600	3595604.000	6177.0	218.6267	3208.5316	SO-SERVE,
, ,		070.00045	3545000,000	6-5447	220.1247	5050-7565	187890-08
7	11	32000000000	3595000.000	0.3730	219.4043	3201 - 3625	-363822-06
4	7 2	225020.020	3555500.000	0.6482	229.9991	3474.5125	746700-04
7	11	200000.000	3575000.000	7.372	230,0573	3127.1510	-,119085-03
2	11	300000000	354500.000	5.6002	227.7344	3146.0074	105311-03
7	11	3700,0000	35,500,000	4.9325	224,4412	3221.3878	673489-04
CT	77	375000.000	3595000.000	4.5538	225.5250	3237.7964	261999-04
70	11	300000.000	35%5600.000	4.3947	226.3949	3236.8329	.205429-04
11	11	3950v0.0vC	3595cn0,000	4.4323	227.1404	3246,3331	.542639-04
2	11	3,0000.000	35%500,000	6964.4	227.2909	3223.0874	·818044-04
2	11	2>5000.000	35%500.000	4.9821	240.7282	3294.3545	.877564-04
3	11	000.00000	3595000.000	5.0043	231.2715	3229.9060	.989938-04
7,	11	402000.000	3575000.000	4.9116	249.7172	3261.8084	.871726-04
26	11	410000.000	3595600,000	5.0137	231.1364	3279.0898	<b>.709679-04</b>
2	11	415000.6u0	3547064.000	さがけい。こ	234.4973	3265.7933	.697586-04
ž	77	1,00000.000	3595Cnu.000	5.4236	236.3979	3246.0164	.580409-04
đ	11	*<50n0.000	359500.00	5.3941	245.978R	3262.6577	.517401-04
ş	11	450000.000	3595000.000	5.72.7	249.0874	3225.1123	. 256338-04
2	11	475040.000	35450-00-000	0.3370	<50.5555	3253.9728	.159541-04
, o	7.	070-0300++	35450 00.000	6.4555	251.1840	3004.9453	.215120-04
\$	77	3+5640.040	3595,00,000	2460.0	240.3594	3215.2134	.223200-04
ž	11	090*0000*	3595,00,000	7.4020	251.6418	3241.2372	431941-04
7	17	+15000.000	35451 116.500	9.2145	, 500 5464	5019-1270	.222318-04
4	. T	4.00000.000	35,401 1c.000	10.7901	247.do38	2851.2150	318397*05
Z	11	100.0000	3595/07.000	7.9351	240.0742	2854 . 1995	153927-04
ż	1.1	J00.0000/+	3595000.000	9.2141	<++.0637	2921.5677	.114306-04
ç	77	+756.0.000	35451 110.000	10.78p1	7065.547	2914,2671	-147198-D#
አ	77	000.000000	35,4500,000	11.1742	245.1111	2705.7097	.312384-04
	11	700.01000t	35951 04.000	10.9609	241-1272	2794-1579	.254319-04
ત્ર	77	ことのできない。	35951 to . 003	11.2240	235.2926	2750.0330	.339923-05
ŗ	11	CONTRACTOR STATES	35,55,110,000	11.71+)	224.2523	2527.4547	156544-04
<b>,</b>	1	EDD. Page	31, 431 00.00	11.000	223.9231	2564.5806	197021-04

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 $\{a_{i_1}, a_{i_2}\}_{i_2}$ 

CJOKJIJATE I-ETLRS)	Y COCHILIATE (MLTENS)	WIND SPECE (METCHS/SEC)	UIMLCTIO:	LAYEH HEIGHT (METERS)	VORTICITY
00000.000	3605000.000	6+66-8	221.0147	2675.2413	000000
1,000,000 0u0	360:000.000	4.9543	221.0147	2675.2413	.148222-04
300.003002	3605/10.000	6.4562	220.0875	2898.4539	.153660-04
240040.000	3605600.000	7.98.7	214.554A	3054.3064	.155275-04
320000.000	3605000.000	7.2919	217.2975	3129.4821	.135363-04
320030.000	3645500.000	0.8153	210.3328	3200.3529	, 327533-05
335000.000	3605ch3,009	9.53,46	<10.3398	322A.0957	591534-05
2400.0000+0	36450,00,009	99,400	210.7519	3236.9874	154540-05
3~5000.000	36051 00.000	6.3796	217.6261	3245.9593	.610811-05
3,00000.000	3665 06.000	6.2835	217,0303	3191.0605	427443-06
3550.0.000	3605603.000	9+64.0	224.5664	3392.5936	334764-05
300000000	350500.000	7.5625	229.6329	3210,3935	356175-04
0.55000.000	36451 PU.000	6.6235	244.9529	3211.9758	732899-04
370460.000	360500.000	5.5349	222.2871	3177.2498	827911-04
3/5000.000	36u5tau.000	4.6951	220.8269	3242.0426	806072-04
300000.000	3505100.000	8004.4	2<3.4736	3246.7262	521851-04
3.35000.000	3605000.000	4.1772	224.5574	3251.4457	155553-04
3500.00060	36u5Gr0,000	4.0577	225.4279	3258.9152	.211858-04
3950u0.0uc	3605000.000	4 + 0505	245.9084	3266.5242	.504193-04
100000-000	36~50 00 36~98	4.0945	220.0653	5281.9366	<b>.696950-04</b>
4.5640.000	36656 00.000	4.1731	225.5271	3252.1973	.786852-04
4,000,000,000	3605000.000	4.1493	75p . 0096	3300.1956	.790516-04
*156v0.0uc	3665000,000	4.1542	227.6118	3309,7998	.784654-04
********	36656.40,000	4.1916	231,0859	3299,9954	<b>*0-616668.</b>
+25Cv0.0v0	3665603,003	4.2276	235.6077	3251.7377	.737401-04
~300°0°00°	3655006.000	5.0709	240.1087	3373,1664	.458847-04
300.3005.	3505000.000	6.3273	245.9517	3194.4240	.221256-04
<u> </u>	3605000	0.6547	249.2555	3229.1228	.716023-05
4450 <b>00.000</b>	35,621 03,060	7,5102	249.6851	3139.3812	.261901-05
40000000000	3645543.000	8.4731	240.1366	3017.4291	.116845-04
*\5600c.uoc	30000000000000	9.1773	240.5616	2945.8521	.259217-04
იიმიი იიი	3640000	11,1733	242.9647	2735.1176	.241629-04
405013.000	56051 HO . 039	14.534	245.2534	2704.9079	.2A2631-04
4136 30.000	3605-00-003	10.3941	9656.147	<b>c811.40</b> *6	-, A87522-05
* /*000.000	3605("0,000	10.6520	241.7663	2864.3190	941432-06
900000000000000000000000000000000000000	350500000	11.1006	245.1794	2852.9225	*0-50****
+ 400.00.000	35051 110,003	11.70.7	250.5769	2807.4930	.379240-04
1,00000.001	320000000000000000000000000000000000000	14.3726	£31.7064	2697.5860	.134475-04
200.000000	350500000000000000000000000000000000000	12.2079	225.0151	2342.3382	679363-05
20076.500	3500: 40.000	12.75.5	224.0.263	いりむす。すなりい	166050-04
7 . 11 11 11		74.7	, CO	7011	ריכביי

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		as all D FIEL	D. LAYER HEIGH	. AND VORTICES	. ALLO FIELD, LAYER HEIGHT, AND VORTICITY AT TIME STEP	131 ( 5.00499	5.Un499 HOURS)
3-	Thak's	K COSEUTIATE	T COM-DINATE (ACTERS)	WIND SPEED INCTERS/SECT	LINECTION (DEGNEES)	LAYEK MEJUHT (METERS)	VORTICITY
	=	10000.000	3610000.000	6.6330	220.267R	2865.7363	.00000
~	1	1.00000.000	3610000.000	6.4330	220.2678	2865.7363	.153676-04
•	-	200000.000	3610-00-000	0+64-0	219.3181	2895.9941	.163932-04
	-	3000000	361000.000	7.7892	217.7795	3041.0376	.166640-04
n	1	3<0000.000	3610000.000	7.152b	<b>216.3067</b>	3145.6813	.132643-04
•	*	330000.000	3610000.000	6.7082	215.2515	3212.3957	.223729-05
~	:	225040.000	3610000.000	6.4951	215.1984	3234.0855	822830-05
•	*	3~0000.000	3610000000	6.3416	216.0078	3242.8461	241652-05
<b>3</b>	*	2+5000.000	3610100.000	6.3200	217.4536	324K.9793	141485-04
2	7	330.00000	3610000.000	0.4376	218.6480	3159.3247	.331852-04
1	**	225000.000	3610000.000	7.0892	225.1507	3217.8434	.239356-04
7	=	3600c0.000	3610000.000	6.1102	224.7867	3065.4691	236454-04
1	1	J.5040.636	3610000.000	0.7104	223.6813	3050.0592	642509-04
=		270000.000	3610000.000	5.1253	217.9060	3194.0617	809028-04
2	-	275000.000	3610000.000	# · B · +	219.6232	3245.9700	786237-04
2	*	200000.000	3610000.000	7664·+	221.9021	3244.1413	642080-04
17	<b>:</b>	<b>3850c0.000</b>	3610600.000	4.1968	223.0464	3253.2154	355785-04
2	1	270000.0000	3610060.000	4.3276	223,4693	3264.1880	126706-05
5	=	295040.000	3610000.000	3.9675	223.3476	3273.8166	*0-1*6005
3	=	000.0000v	3610000	3.9514	222.7497	3282.6512	. 539137-04
7	1	************	3640'000.000	3.9367	221.5703	3200.7205	7U-951069.
2	*	*10000.000	2640000.000	3.8719	221.0254	3312.0424	.785920-04
2	2	~156v0.000	3610000-000	1.8021	221.5069	3323.6293	.733591-04
ž.	1	0000000	3616000.000	3.5722	223.3362	5311.7472	.507132-04
3	<b>:</b>	972000°000	341000,000	3.5004	234.3567	3365.4278	.400411-04
.3	<b>2</b>	400000-000	36100000	5.1229	241.6255	3377.8567	.376646-04
27	=		361000.000	6.1106	252.3320	3219.6213	*0-9669**.
2	:	370.000**	3610000.000	6.6971	254.1977	3159.432o	*0-L10L1+0
R	<b>1</b>	145000.000	3616000.000	7.7491	250.0533	5104.0901	.265103-04
3	*	300°0°00'*	2610700.000	61.2.6	240.7421	3031.1444	189135-04
32	1	455Cu3.0uC	3610500.000	10.000	245.2070	2456.2975	.118968-04
K	<b>:</b>	300.00000	2010(00.000	11.2563	244-4661	2668.3154	.251469-04
3	-	+050J0+00C	3613100.000	10.3738	241.5075	2893.3159	. R22387-05
ž,	-	470670.400	36466110,000	11.4.731	240.2314	2776.8701	100341-04
ž,	4	4/5000.000	361 Jf No. COO	11.9358	257.5311	2695.7834	.154167-04
3	-	430600.000	201101000	12.5050	< 50.0739	2562.7672	オロートのさののす。
5	<u> </u>	9つの・カップリティ	361u( fig. 009	10.0444	231.6527	2517,7067	.255143-04
2	1	346006.006	20100000	13.5133	.40.6872	2469.9437	.550673-05
ና	4	370.0000	3410.00.000	13.3600	223.0693	2249.3380	635733-05
3	*	300° 500° 5	251J1 CU.000	15.1030	220.002	2339.2195	138511-04
;	*1	7,00.1.00.5	35401 116.090	13.1033	240.6037	2339.2195	000000

r latex	X X CUORUTHATE	Y COCPOSINATE (METFHS)	WIND SPEED (METERS/SEC)	UTKECTION (PLONEES)	LAYER INEIGHT (MLTERS)	VORTICITY
15	1.000.0.000	3615000.000	B.9482	219.4672	2855,5150	000000
72	160006.000	3615000.000	8.8442	<19.4672	2855.5150	158946-04
5	300.0000°	3615000.000	8.4545	210.4113	2669.3083	.171681-04
cŢ	3.0000.000	3615000.000	7,7375	210.0509	3048.4140	113573-04
25	34.0000.000	3615000.000	7.0A/8	214.4851	3161.1378	.132457-04
15	330000.000	36.151.0J.000	6.6477	213.7637	3227.0963	330988-05
15	3.50.0.000	3615000.000	6.4602	213.9668	3239.6231	629385-05
2	349640.000	3615000.000	6.2932	214.0193	3245.8908	309167-05
51	345000.000	3615( 00,000	6.2340	215.7045	3260.4299	.176640-04
13	330000.000	361500.000	6.14.96	213.9550	3160.2946	304600-0#
15	355000.000	3615100.000	6.9943	256.9005	3442.2557	*S44748-04
15	30400.000	3615000,000	8.2957	227.2772	2890.7097	-,728610-05
5.1	35500.000	3615000,000	5.7376	£18.9908	3116.7492	511351-04
15	370000.000	3615666.000	5.1323	217.7313	3254,7400	658474-04
57	0.150,00.000	3615000,000	4.9760	C19.4340	3254.6342	702714-04
15	300000.000	3615000,000	4.6041	221.1371	3245.1006	40-064469°-
15	335000.000	3615600,000	4.2954	221.7594	3253.3698	416022-04
72	030.00000	3615000,000	4.1105	221.6734	3260.0682	120797-04
17	345000.000	36,5000.000	3.9314	221.4009	3271.2403	.168800-04
15	4.00000.060	3615003.000	3.8931	219.3157	3278.6120	.403426-04
15	475010.000	3615000.000	3.8024	217.2119	3293.9402	.605853-04
13	410000.000	3615(00,000	3.7097	215.0596	3319.4665	.698325-04
57	+150c0•000	3615000.000	3.6609	213.3909	3286.4636	.566672-04
15	070.0007	3615600.000	3.0440	221.1475	3267.4911	199233-04
15	4.50t0.0uc	3515003.000	3.6421	251.0210	3344.8459	108365-04
13	000.00001	3515reu .000	4.5928	241.1088	3262,9456	.262360-04
15	435406.300	3615000.000	5.2137	250.0192	3274.3219	. 563613-04
10	0000°t	3615 000 000	05 46 . 9	252.0004	3297.7318	#0-#00099·
15	1+50c0.Je3	3615( (.), 000	5.2901	247.5507	3021.1167	#0-06LS9#.
72	100.000004	36151110.000	10.6523	243.3500	2822.6364	.197660-04
L	4.5000.000	36151 116.000	11.5457	<42.20B0	2720.9205	-,145956-05
ĊŢ	300.0000+	36451 114.100	11.9555	242.2436	2652.0179	313793-04
15	+05Cvc-0CC	3515, 00.000	14.4643	<37.0074	2604.4980	. 340806-05
15	470000.000	3613170,000	12.1730	636.9599	2610.0129	196352-04
1:	.750.0.000	3615003.000	12.7217	233.000A	2519.6696	.272456-05
10	000.00000	36151 00.000	13.1622	234.0624	2515,8681	.271826-04
15	4406.03.600	3512010.000	13.6707	<.30.0307	2453.0054	.211498-04
ני	0,00,000,0	3615404.000	13.95.05	225.3871	2413.7852	. 402527-05
1	300000000	35,431.114,000	13.6623	422,1956	22u3.1d52	560356-05
1	Subsection of the Subsection o	35151 10.000	13.5005	CIMSONN	2310.0185	-113935-04
•						

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5.00499 HOURS) ••	VORTICITY		. 164000-04	.179422-04	.175785-04	.124257-04	. 205155-05	604343-05	636961-05	160850-04	258326-05	. 107453-05	.242522-04	124135-04	333321-04	500474-04			107359-04	130063-04	. 405224-04	.657115-04	#0-##0## <b>0</b> .	.356429-04	624764-05	235520-04	183213-04	.407662-04	.471727-04	.609e03-04	.117767-04	.61098-05	.156313-04	.845901-05	.100726-04	. 379416-04	. 348198-04	.201234-04	.124933-05	666000-05	984389-05	900000
131 ( 5.00499	LAYER HEIGHT (METERS)	2844.7975	2844.7975	2882.4034	3041.4296	3154.6446	3215.4731	3233.8336	3249.1198	3253.3983	3125.6031	1405.2047	2914.4924	3180.9863	3261.5625	3235.9291	3246.6989	3255.1843	3260.5274	3297.9158	3279.4136	3299.4791	3285.7046	3210.9254	3419.6619	3355.6018	3315-8095	3364.7007	3107.6776	2796.4747	2721.8178	2644.8709	2569.4755	2527.4058	2640.6579	2506.9677	2375.8065	2352.534b	2339.0473	2169.0034	2299.0038	2299.0638
Y AT TIME STEP	CIRECTION (PEWREES)	214.6276	218.6276	217.4603	215.5250	<13.5389	212.2248	212.2904	213.1208	214.1924	211.9250	219,8931	220.7224	210.9054	417.0110	218.6716	219,5799	220.3126	218.9404	<14.0160	216.6166	212.1788	206.9931	502.9417	208.4834	252.7649	239.8462	243.8490	242.9518	244.0036	c*1.5392	240.0731	5405.452	250-8606	< 35.5182	230.2209	233.0448	243.6890	224.7220	222.1341	220.525	220.522
WI.D FIELD, LAYIP HEIGHT, AND VOPTICITY AT TIME STEP	WIND SPEED (METERS/SEC)	d.8642	8.8642	8.4148	7.6473	7.0246	6.6242	0.4336	6.3344	6,3858	0.1849	7.8193	7.5153	5.5232	S.3469	5.0966	4.7090	4.4462	4.1947	4.0531	3.9648	3.9139	3.9613	3.0489	5.1173	3.7129	4.3301	5.77.3	8.4711	16.5369	11.4700	12.3501	14.7609	12.6572	12.5439	13.3005	14.0340	14.2679	14.2292	13.7209	13.3537	13.35.37
" LAYEP HEIGHT	F CONFIDENTE	3640000.000	3640000.000	36200.00.000	3620004.000	3620000.000	36<00003.000	3646000.000	3440000.000	36_0000.000	36<00:00:00	3620000.000	3620000.000	3620000.000	36<0000.000	362600u.600	3640000.000	3620000.000	362000.000	3620000.000	36<20.00.000	3646000.000	36,0000,000	3620000.000	362じじゅ,000	3620000.000	3620000.000	J4 601 00.000	3623500.000	3640000.000	36.010.030	36201000	3645' 64.898	36461 03.630	364 51115 600	364 01.00	3646000.006	36401 06.000	Mac. ( P. 000	36481 113.000	3560( 00.000	36,600.00
stad field	A CUORDINATE (.ETERS)	100000.000	1.000.0.0001	260000.000	220.02007	3,0000.000	070.00000	335000.000	248000.000	245000.000	550000.000	2,5000.000	20000.000	30500.000	370000.000	275600.000	360000.000	202000.000	2,00000.000	245040.000	1.00.0.000	102000.000	410000.000	+15000.000	039.0007+	- 30c0 .000	4 500000.000	+25020.000	++0cc0.0cc	142000・1001・	+500.0.0c	100.0000	370.33000	370.0.752.	02012700/+	. /50u0.tuo	***********	200-0-00-0	カカカ・シャカシ1つ	<b>うつり・りっりのこ</b>	いっといいという	7.60.0.600
	T Inde A	10	9	cI	2	2	2	9	91	70	O	9	70	91	16	<b>1</b> 0	2	9	ė	91	2	2	4	2	.2	2	0	7	2	2	70	?	r,	• 7	77	15	13	77	<b>7:</b>	<u>:</u>	Ł5	?
	4 1.40EX 1	-	•	m	•	7	•	~	•	•	2	11	7	77	:	3	-	7	2	3	2	7	4	2	ž	Q	3	27	2	\$2	3	3	4	3	3	સ	3	r,	ጸ	ş	;	;

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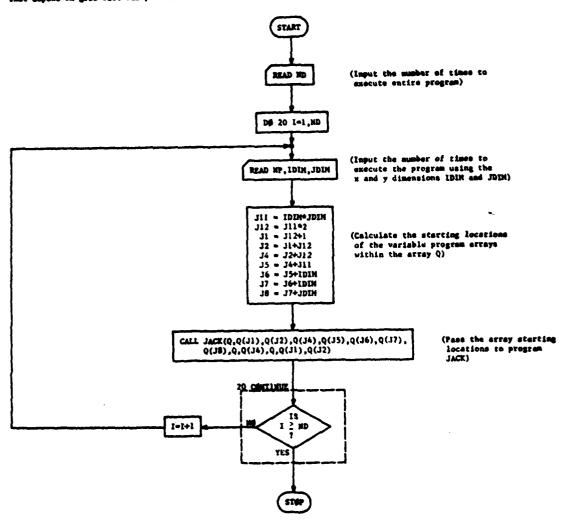
# APPENDIX D COMPUTER PROGRAM FLOW DIAGRAM

Appendix D contains detailed flow diagrams of the ASL/WSMR Wind Field Terrain Adjustment Program.

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#### D.1 PROGRAM MADEL

This program reads the object time dimension limits and calculates the relative addresses of the program arrays that depend on grid size and passes the addresses to the main calculation routine JACK.



## D.2 SUMMOUTUR JACK(UL, VL, PL, MG, DELEY, BRPI, DELYJ, DYPJ, CBMYP, MGQ, VLQ, VLQ, PLQ)

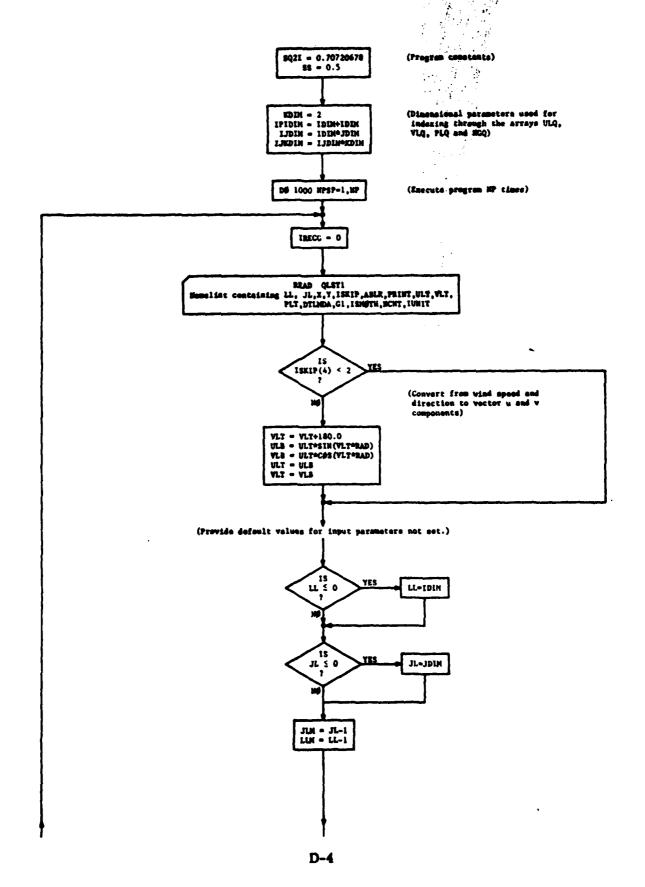
This is the main calculation routine. Subroutine JACK inputs the unjority of the program control and model parameters. The program inputs the terrain via subroutine MSUTIN, calculates and sets initial conditions and then enters the time loop that calculates the vector components of the vind speed and the surface layer heights. At the end of each time loop, the program checks to determine if printing or tipe output of the vind field is desired for the present time step. When the time loop has been completed, the program loops to the next problem in sequence if present.

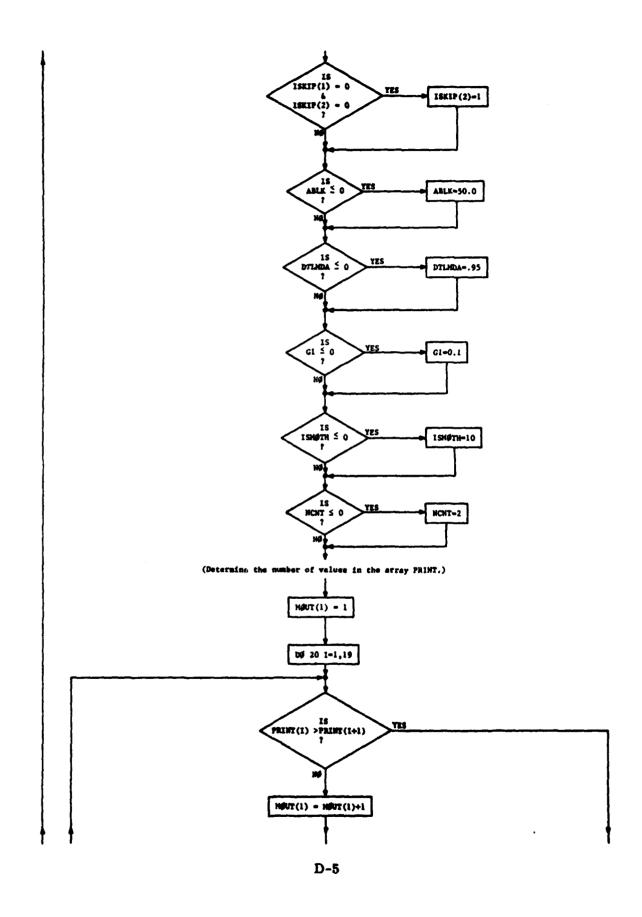
#### PROGRAM VARIABLES

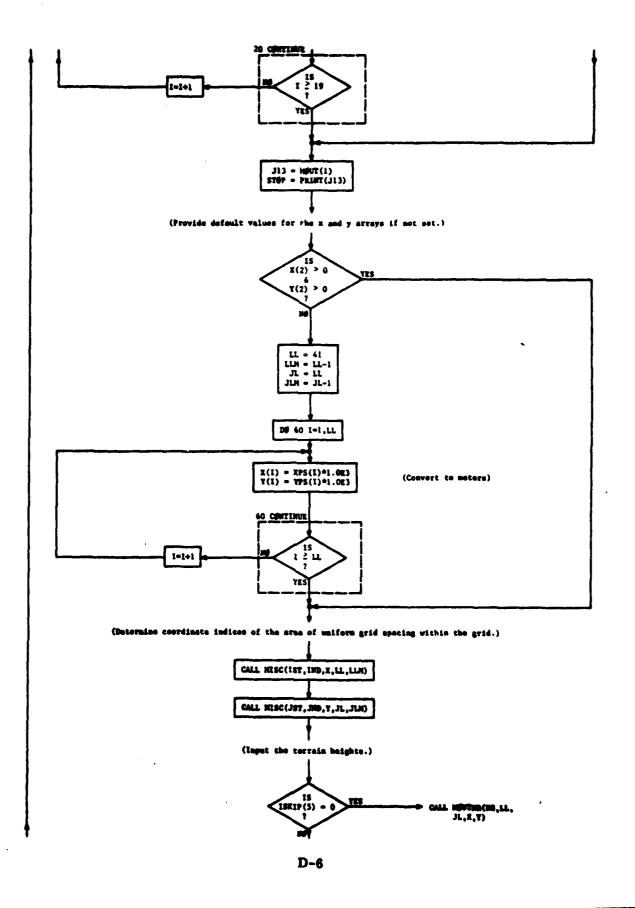
```
- Array containing the inverse of [X(1+1) - X(1-1)] to minimize divisions in the time loop.
DELXI
          - Array containing the inverse of [Y(J+1) - Y(J-1)] to minimize divisions in the time loop.
DELTJ
          - Array containing the inverse of [X(1+1) - X(1)] to minimize divisions in the time loop.
DXPI
          - Array containing the inverse of [Y(J+1) - Y(J)] to minimize divisions in the time loop.
          - Time increment for the time loop
TIN
          - Total time in seconds of the time loos
HC=HCO
          - Array containing the terrain heights.
          - Number of grid points in the y-axis.
JL
          - Number of grid points in the x-exis.
LL.
ши
          - LL-1
          - JL-I
JLM
UL([,J,K) = ULQ([+(J-1)*IDIM+(K-1)*IDIM*JDIM) - The u component of the wind speed times the layer depth where K = 2 is
             the present time step and K - 1 is the past time step.
VL(1,J,K) = VLQ(I+(J-1)*IDIN*(K-1)*IDIN*JDIN) - The v component of the wind speed times the layer depth.
PL(I,J,K) = PLQ(I+(J-1)*IDIM+(K-1)*IDIM*JDIM) - The surface layer depth.
          - The initial u component of the wind speed or the mean wind speed depending on ISKIP(4).
ULT
          - The initial v component of the wied speed or the direction depending on ISKIP(4).
VLT
PLT
          - The initial height of the surface laver.
          - Array containing the x-axis of the reference coordinate system.
          - Array containing the v-axis of the reference coordinate system.
          ~ Array containing the time in minutes at which the wind field and layer heights are to be output within the
PRINT
             time loop. Values are in ascending order and the maximum is used as the stop value.
          - Index of the first point in the x array at which uniform grid spacing occurs along the x-axis. This value
IST
             and IND, JST, and JND below are output to tape for use in plotting the area of uniform grid spacing.
           - Index of the first point in the y array at which uniform grid spacing occurs along the y axis.
          - The ending indices in the x and y arrays at which uniform grid spacing stops.
IND.JND
           - Number of iterative time steps between the recalculation of the time step increment DT.
          - Stability factor for calculating the time step DT and maintain DT at a critical value. This value should
DTLMDA
             be an close to 1 as possible and still maintain program stability. Values of 0.90 to 0.95 generally
             maintain stability.
           - Number of time steps between the applications of a nine point smoothing function.
I SHIFTH
          - Reduced gravity factor equal to g(1-5) where g is the acceleration of gravity (9.8 m/e<sup>2</sup>) and S is the ratio of the potential temperature at the top of the layer over the potential temperature at the bottom of the
C1
ISKIP
           - Program control options. Refer to the user instructions or the program listing for details.
IUNIT
           - The Fortran logical tape unit for program tape output. If more than one reel is written, a I is added to
             IUNIT and a reel is assumed mounted on the next unit. A second reel will be required only if many time
steps or many problems are being output. Refer to the user instructions or the program listing for the
             tape format.
ABLK
           - The minimum allowable layer depth.
           - Array containing the x axis of the standard WSMR grid in UTN (kilometers) coordinates.
1PS
YPS
           - Array containing the y axis of the standard WSNR grid in UTM (kilometers) coordinates.
           - Constant used in the nine point smoothing function.
           - Number of groups of UL, VL and PL output to tape in any one problem run.
MARIT
           - Array containing record one of each file output to tape.
STOP
           - Time of the last time step to process.
ITACI
           - Flag used to check if problem has tape output.
JPR
           - Counter for the PRINT array.
IFLAG
           - Program stability flag where if out to greater than sero the problem is stopped and the program goes to
             the pext case.
ISAVE
           - Time step number at which tene output occurs.
```

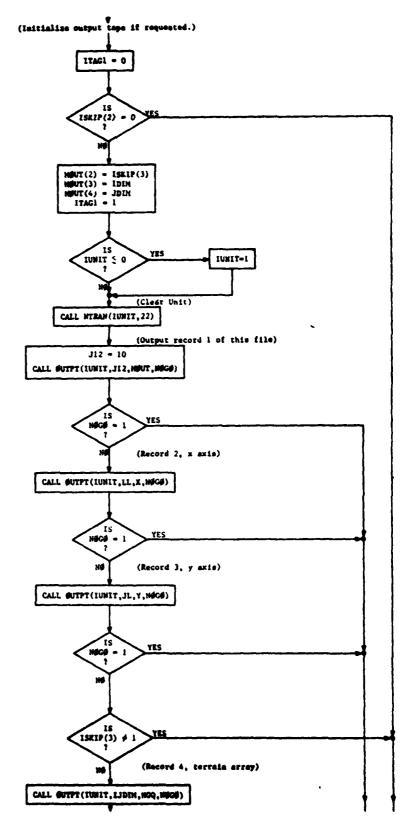
Other program variables are used for temporary storage and indexing.

- Time at which tape output occurs.

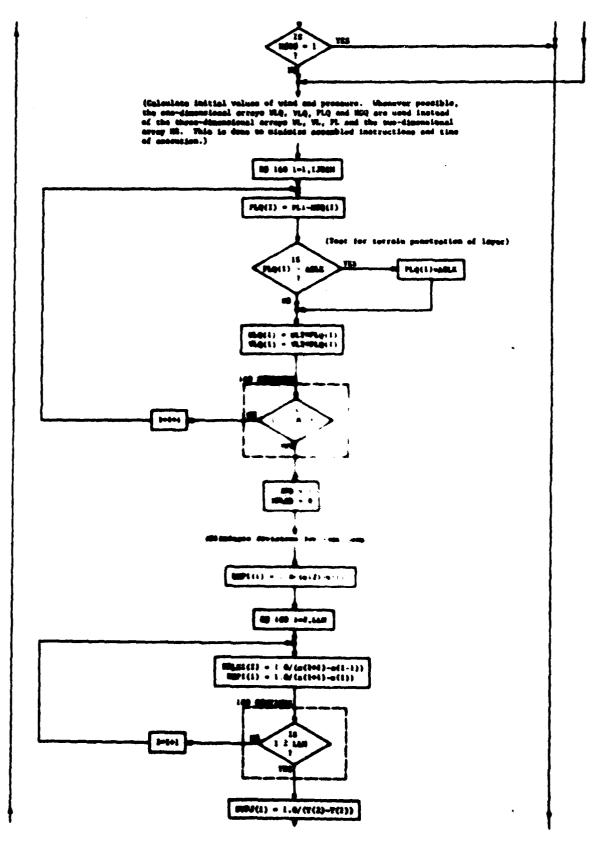


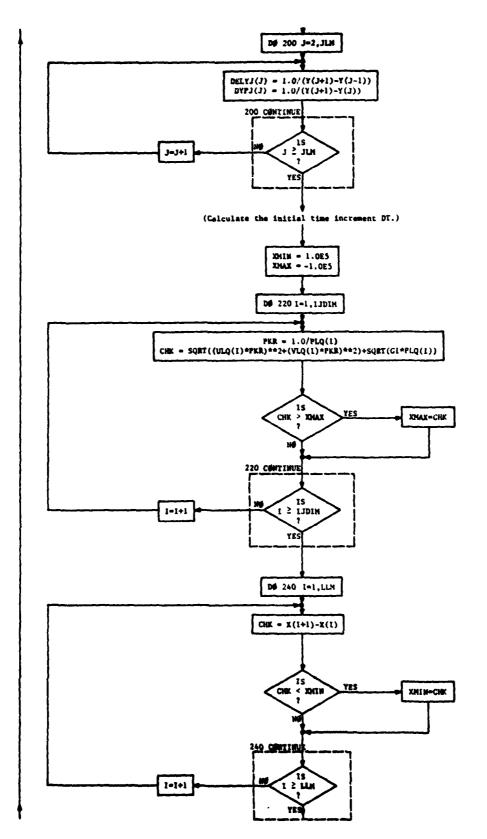




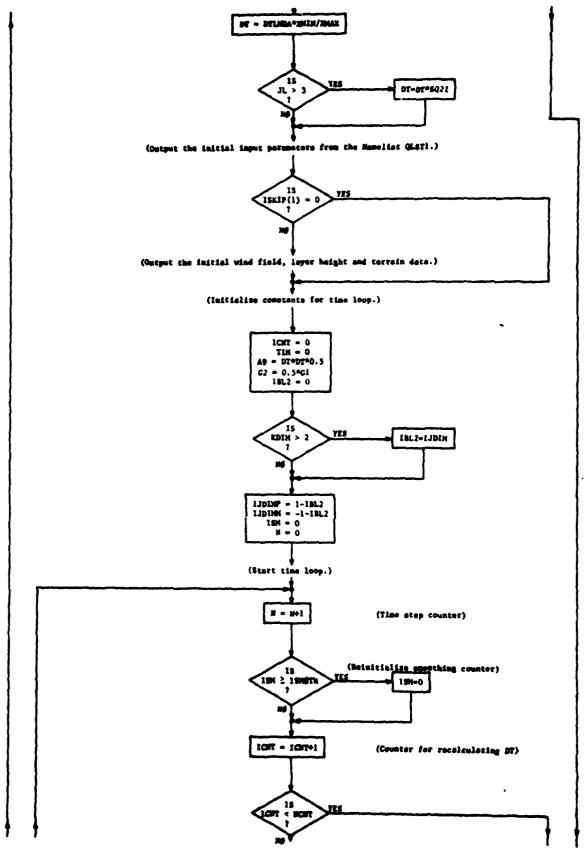


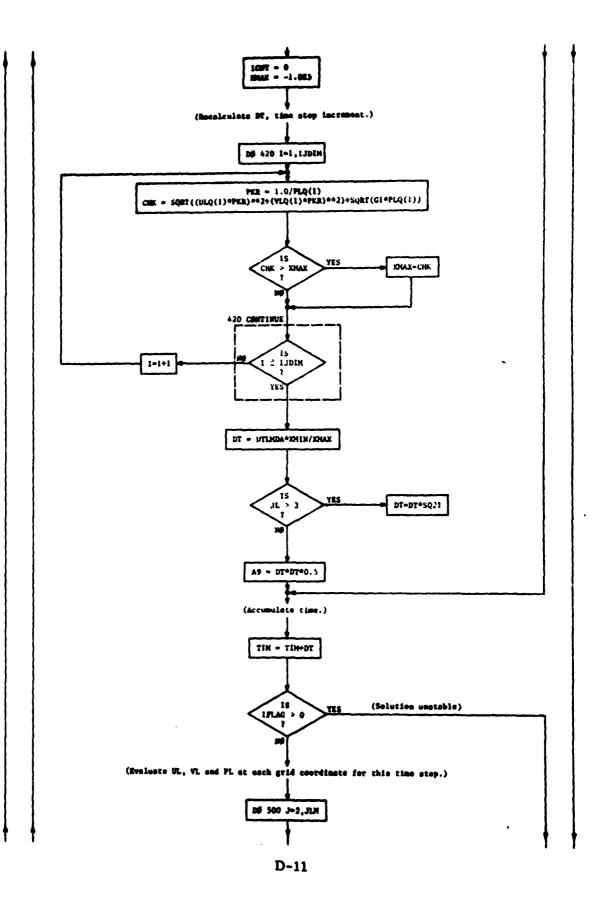
D-7

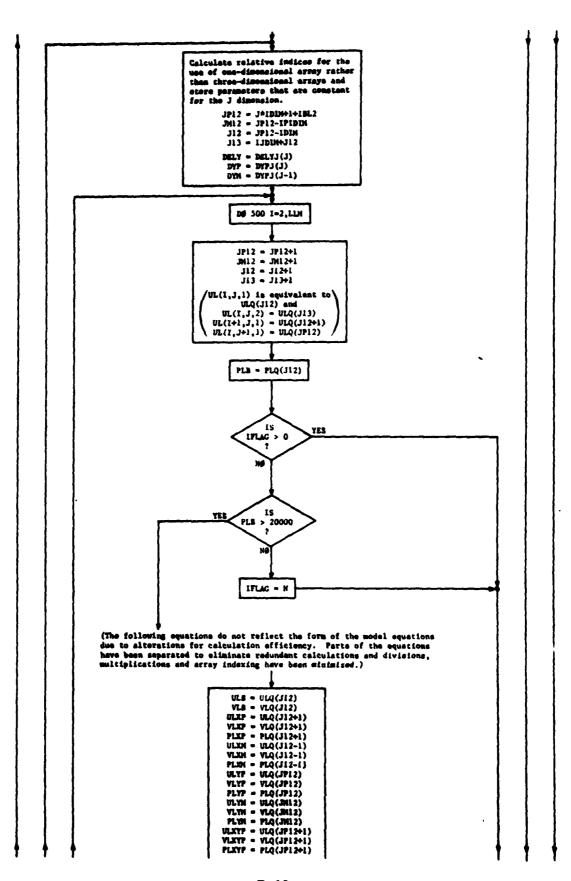




D-9





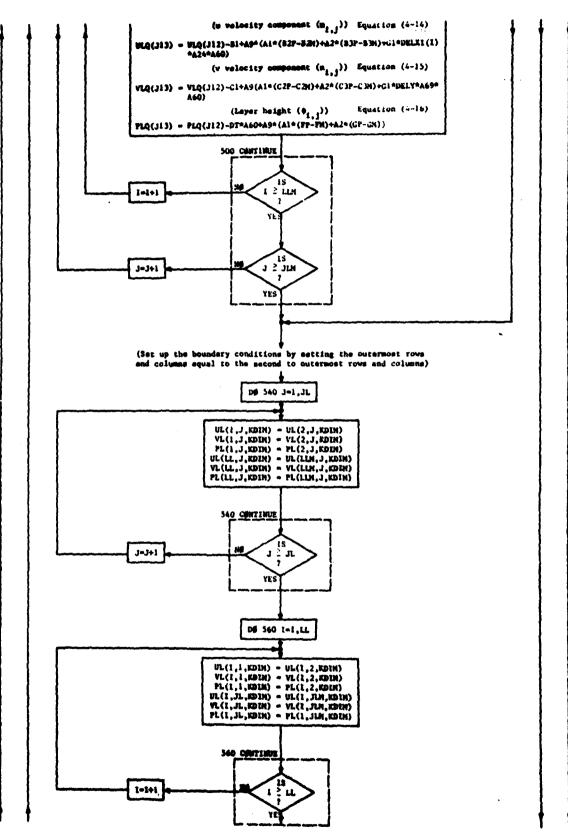


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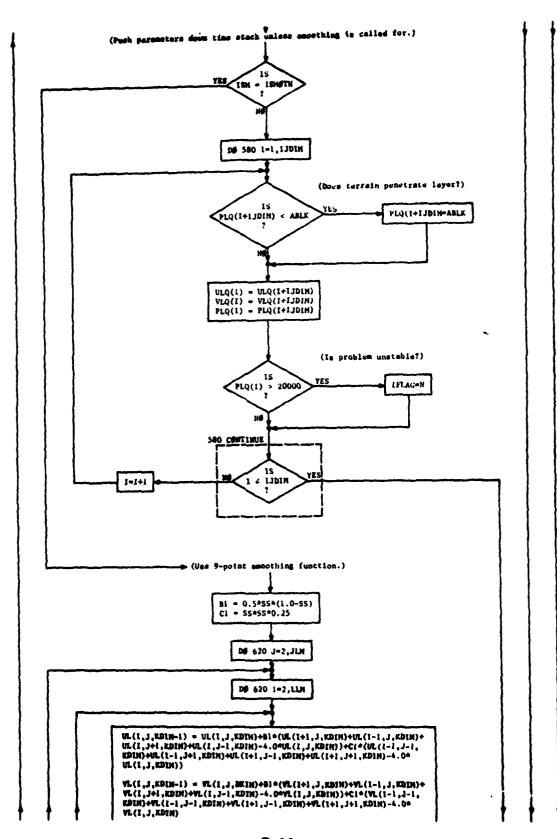
```
WAYM = VLQ(M12-1)
VLXYM = VLQ(M12-1)
PLXYM = PLQ(M12-1)
                       DENOMA - AEG(1615-1)
                       VLIDAY - VLQ(JP12-1)
                       PLXMYP - PLQ(JP12-1)
                       ULXPYN - ULQ(JM12+1)
                       VLXPYH - VLQ(JH12+1)
                       PLXPYM - PLQ(JM12+1)
                        PLBI = 1.0/PLB
PLXPI = 1.0/PLXP
                        PLICAL - 1.0/PLICA
                        PLYPI = 1.0/PLYP
PLYMI = 1.0/PLYM
                       PLXYPI - 1.0/PLXYP
                       PLXYMI - 1.0/PLXYM
                       PXMYP1 = 1.0/PLXMYP
PXPYMI = 1.0/PLXPYM
                       A39 - HGQ(J12-1BL2)
                       A43 - HGQ(JP12-IBL2)
                       A79 - HGQ(JM12-IBL2)
                       A21 - HGQ(J12+1JDIMP)
                       A75 = HGQ(JP12+LJDIHP)
A76 = HGQ(JH12+LJDIHP)
                       A77 = HGQ(JP12+1JD199)
                      A78 = HGQ(J12+IJDIM)
A80 = HGQ(JM12+IJDIM)
                        A1 = 2.04DELXI(1)
                       A2 - 2.04DELY
A10 - ULXP4PLXP1
                       A12 - ULXP*A10
                       All - ULB*PLB1
                       A14 = ULBAA11
A3 = PLXPAPLXP
                       Al6 - PLB*PLB
                       A56 - 0.5 DELY
                       A46 - ULXYP*PLXYPI
                       ALT - A46*VLXYP
                       ASI - ULXPYN*PXPYMI
                       A18 - ASIAVLXPYM
A49 - ULYPAPLYPI
                       A19 - A494VLYP
                       ASS - ULYN+PLYMI
                       A20 - A534VLYM
                        A6 - A19-A20
                       A33 = (PLXP+PLB)+G2
A22 = A21-A39
      (Part of second-order terms common to UL, VL and PL)
FF = DKPI(I)*((A12-A14+G2*(A3-A16))+A33*A22)+A56*(A17-A18+A6)
   - (f<sup>+</sup>) Equation (4-20) in Section 4.
                         AS - ULIDI-PLICHI
                        A28 - ULXH*A8
                        A29 - PLXM*PLXX
                        A47 - ULXNYP*PXNYPE
                       A30 = A474VLXMYP
A52 = ULXYM4PLXYMI
                        ASI - ASSAVLXYN
                        A40 - (PLB+PLXM)*G2
       (Part of second-order terms common to UL, VL and PL)
 FM = DEFE(E-1)*((A14-A28+G2*(A16-A29))+A40*(A39-A78))+A56*
       (A6+A30-A31)
    - (f ) Equation (4-20) in Section 4.
                        A54 = 0.5*DELXI(1)
                        A34 - A10*VLXP
A35 - A8*VLXM
                        A25 - A34-A35
                         A7 - VLYP*PLYPI
                        A34 - VLYPAA7
A45 - VLBAPLBI
                        A37 = A454VLB
A38 = PLYPAPLYP
                        A65 . G24(PLYP+PLB)
        (Part of second-order terms common to UL, VL and PL)
       A54+(A17-A30+A25)+BYF+((A36-A37+G2+(A38-A16))+A65+
       (A43-A39))
     - (E) Equation (4-21) in Section 4.
```

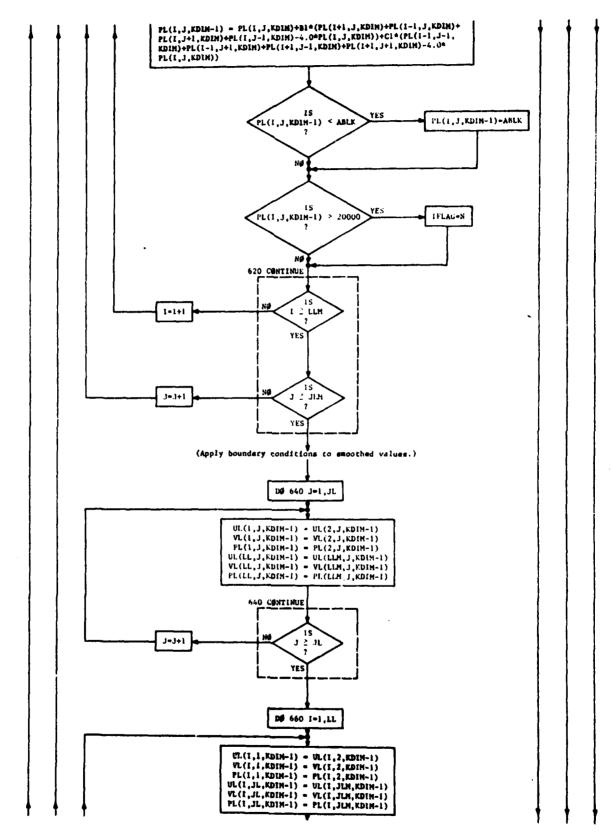
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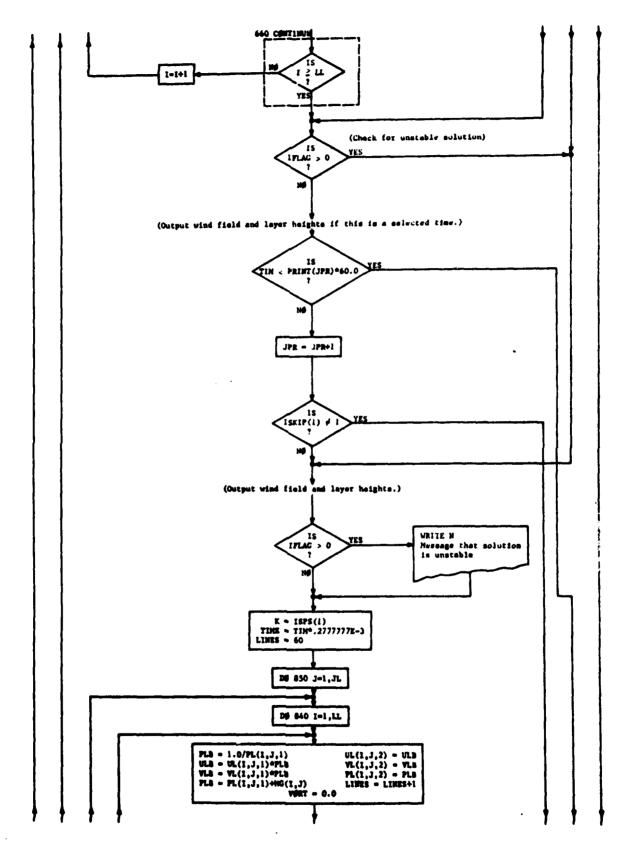
```
ASO - VLTMPTLYMI
A41 - VLTMPASO
                   A42 - PLYMAPLYM
                   A23 - G24(PLB+PLYNI)
(fort of second-order term common to UL, YL and PL)
GH = A54*(A25+A18-A31)+BYH*((A37-A41+G2*(A16-A42))+A23*
     (AJ9-A79)) = (g^{-}) Equation (4-21) in Section -.
                  A35 = A54+A54
                   A5 - A12-A28
                   A50 = A3-A29
                  A57 - A56+A56
                  AZ6 - GZ-PLB
                  A24 - A21-A78
    (First-order term of a component Equation (4-14))
       BL - DT+(A55+(A5+G2+A58)+A57+A6+A26+A1+A24)
                  A71 - VLXYP-VLXTYM
                   AS9 - VLYP-VLYM
                   A4 - A14-PLB1
                  ALS - (ULXP-ULB) *OXPI(1)+AS6*
                         (A71+A59)
(Part of second-order term of u component, Equation (4-17))
82F = (A10+A11)*FF+A13*(A33-0.5*(A12*PLXFI+A4))
                   A72 - VLIGHT-VLXYN
                   A44 = (ULB-ULJQ4)*DXPI(1-1)+
                        A56*(A59+A72)
(Part of second-order term of u component, Equation (4-17))
B21 - (A11+A8)+FH+A44+(A40-0.5+(A4+A8+A8))
                  A27 - PLXYP*PLXYP
                   A62 - PLIDTYP*PLIDTYP
                   A48 - AlleVLB
                   A73 - ULXYP-ULXXXP
                   A67 - ULXP-ULXM
                   ALS - (VLYP-VLB) *DYP+AS4* (A73+A67)
(Part of second-order term of u component, Equation (4-17))
B3P = 0.54((A7+A45)4(A544(A464ULXYP-A474ULXXYP+A5+G24(A27-
      A62+A58)}+BYP+(A19-A48)+A65+A54+(A75-A77+A24)}+(A49+
      ALL) GP-(AL9-PLYPI+A48-PLBI) ALS)
                  A61 - PLXPYN*PLXPYN
                   A63 - PLXYM*PLXYM
                   A64 - A48*PLDI
                  A74 - ULKPYN-ULKYN
                   A32 - DYH+(VLB-VLYH)+A54+
                         (A67+A74)
(Part of second-order term of u component, Equation (4-17))
B3H = 0.5#((A45+A50)#(A54#(A5+A51#ULXPYH-A52#ULXYH+G2#(A58+
      A61-A63))+DYM*(A48-A20)+A23*A54*(A24+A76-A80))+(A11+A53)
      9GH-(A64+A209PLYHI) 9A32)
                   A70 - A36-A41
                   A68 - A38-A42
                   A69 - A43-A79
    (First-order term of v component, Equation (4-15))
CL = DT*(A55*A25+A57*(A70+G2*A68)+A26*A2*A69
(Part of second-order term of v component, Equation (4-18))
C2P = 0.50((VLXP0PLXPI+A45)0PP+(A10+A11)0(DXPI(I)0(A34-A48)+
      AS60 (VLXYP-VLXYP-PLXYP1-VLXPYNOVLXPYNOPXPYN(+A70+G24
      (A27-A61+A68))+A33*A56*(A75-A76+A69))-(A34*PLXP1+A54)
(Part of second-order term of v compensat, Equation (4-18))
C2N = 0.3*((A45+VLINOPLINIT)*FN+(A11+A8)*(DKP1(I-1)*(A48-A8*
      VLBH)+A560 (A70+VLBHYP-VLIDHYP-PBHYP I-VLXYNOVLXYNOP LXYNI+
G2*(A60+A62-A62))+A40+A56*(A69+A77-A80))-(A64+A35*PLDH1)
                   A66 - A45-A45
(Part of second-order term of v component, Equation (4-18))
C3F = (A7+845)*CF+815*(A65-0.5*(A7*A7+866))
(Part of second order term of v component, Equation (4-18))
C3H - (A45+A50) 9CH+A32+(A23-0.5+(A64+A50+A50))
                   A60 - A35-A67+A57-A39
```



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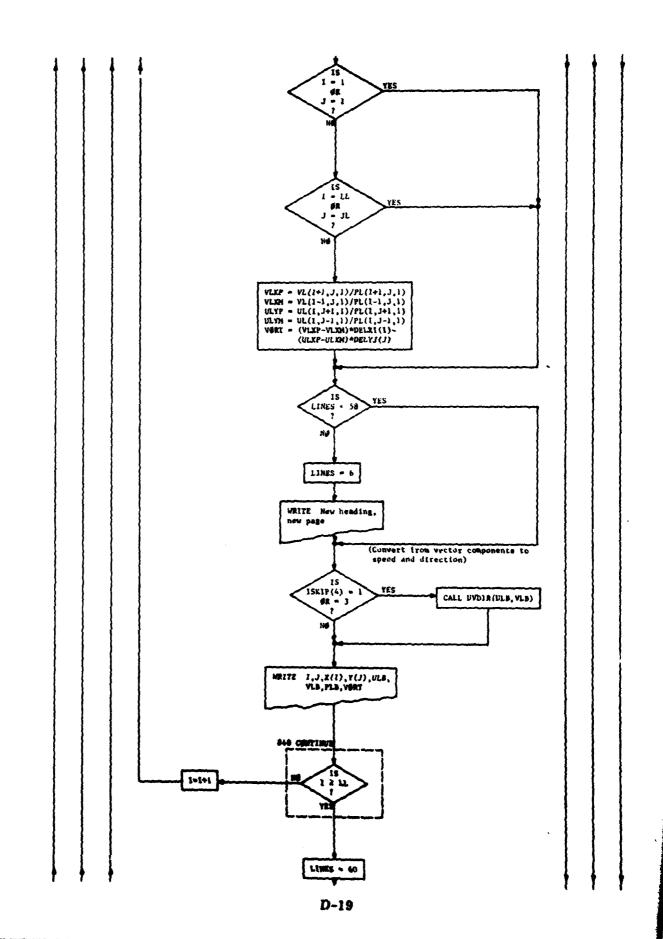






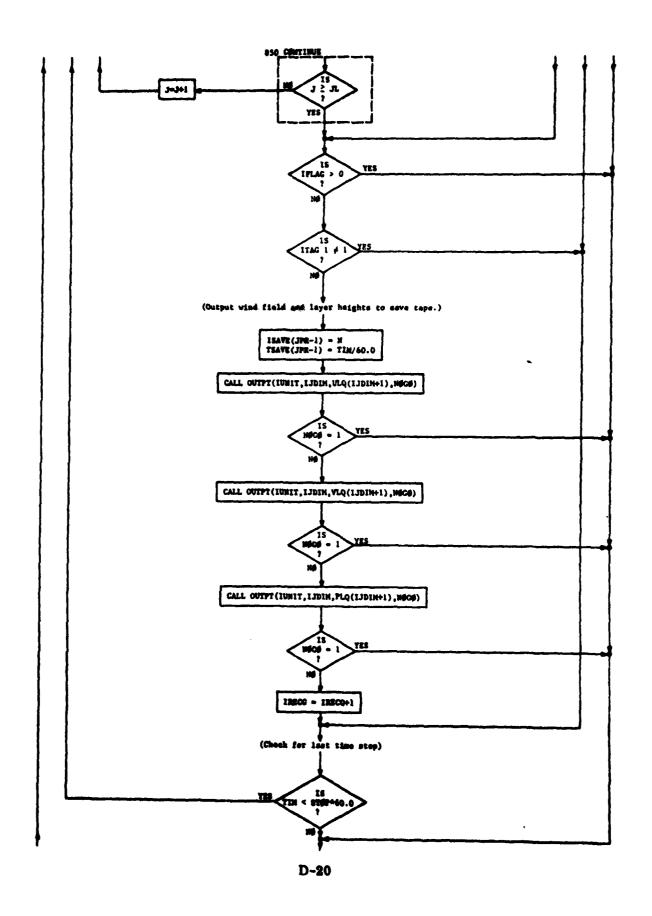
D-18

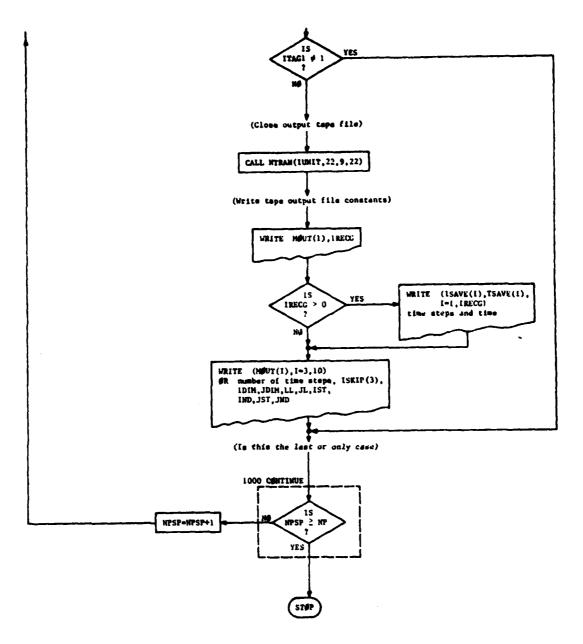
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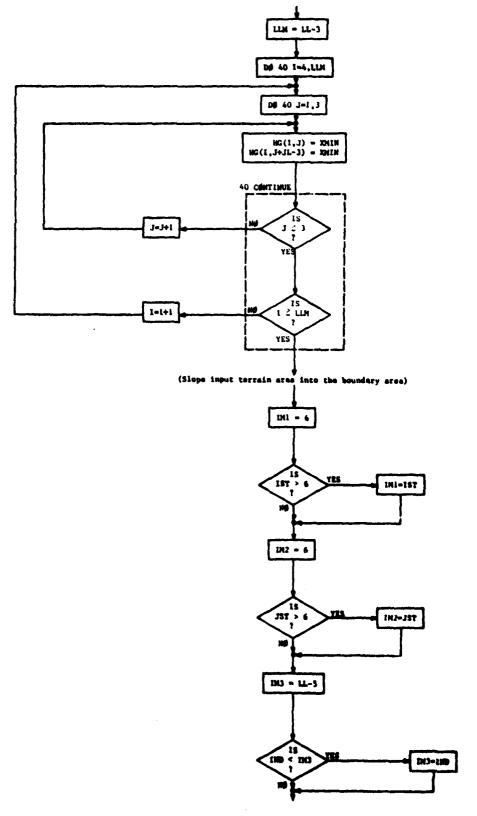




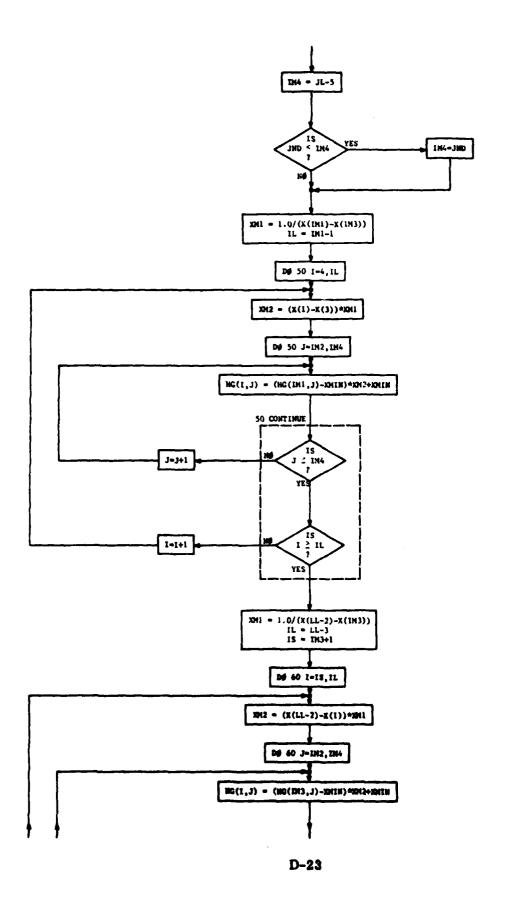
### D.3 SUBSOUTINE HOUTHR (HG, LL, JL, X, Y)

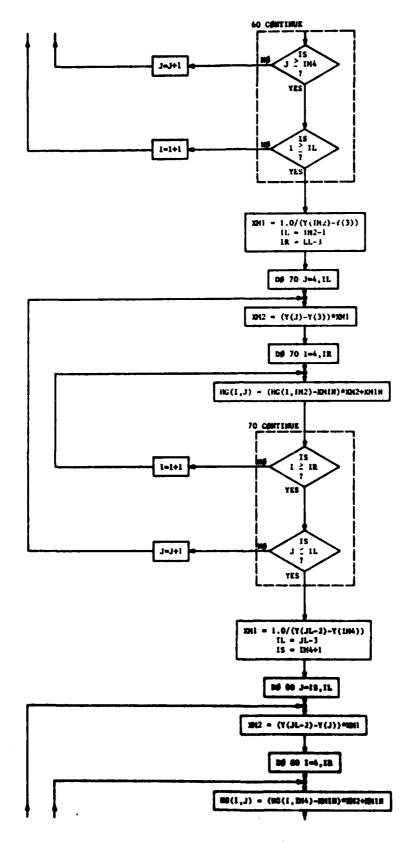
Subroutine MOUTHER reads the terrain data and the indices of the terrain data. The indices IST, IND, JST and JND of the starting and ending points on the x and y axes are input first. The terrain height data are then input. Areas of the grid that do not contain terrain height data and dutomatically the first (lest) three rows and columns are filled by the program. These areas are filled with terrain heights that slope down to the minimum height at the boundary edges.

D-21



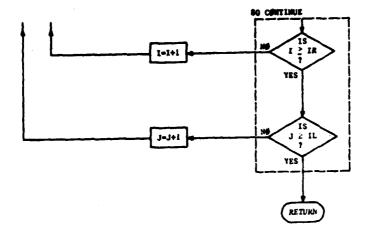
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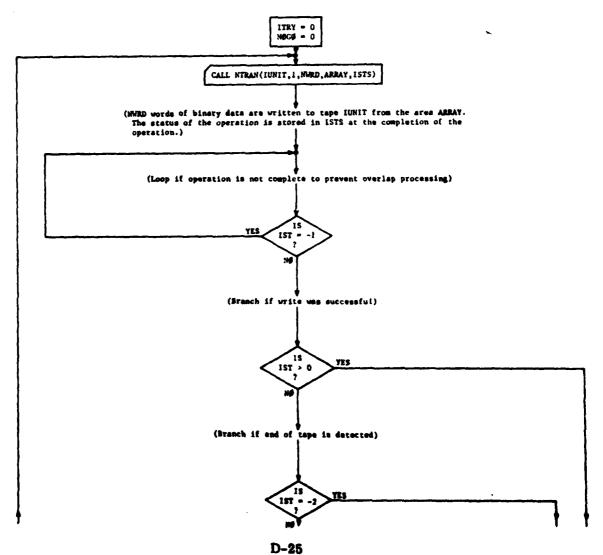
D-24

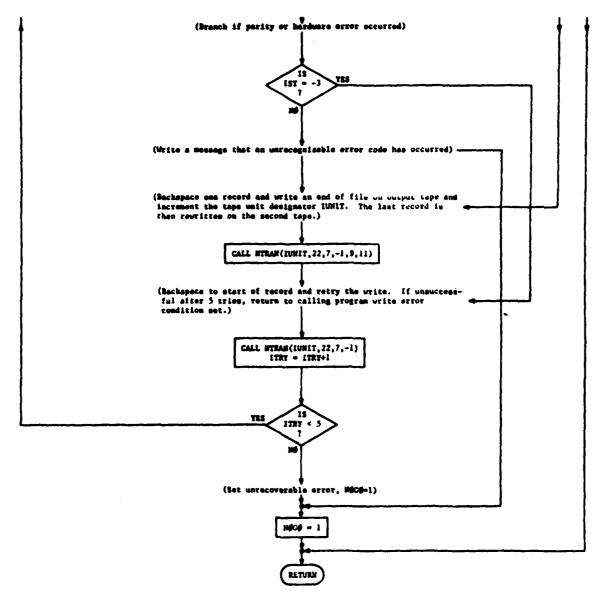
die.



# D.4 SUBSCUTINE SUTPT (IUNIT, NATED, ARRAY, NGGS)

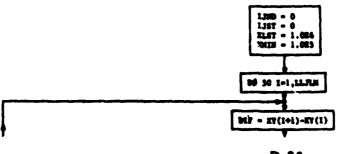
Subroutine GUTPUT writes the wind field and layer height information to save taps. This routine uses the UNIVAC 1108 NTRAN subroutines for all output.





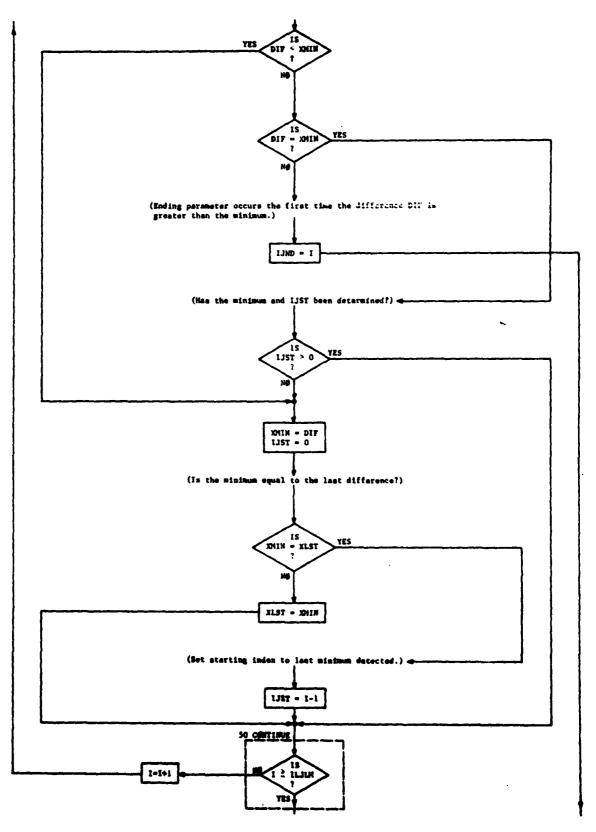
## D.5 SUBMOUTINE MISC(IJST, LIND, KY, LLJL, LLJLM)

Subroutine HISC determines the starting and ending indices on the x or y axis that determines the area within the grid over which uniform grid specing occurs. These parameters LJST and LJMD for both axes are output to the save tape for plotting of the grid dependent parameters.

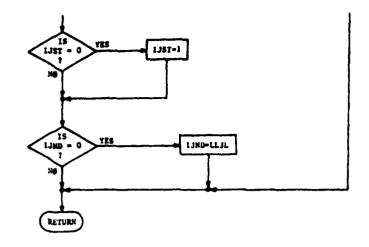


D-26

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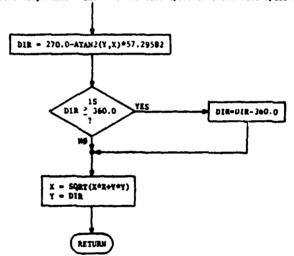


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### D.6 SUBMOUTINE UVDIR(X,Y)

Subroutine UVDIR converts the vector components u and v of the wind speed into the wind speed and direction.



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19. ABSTRACT			
This report describes the development an			
containing a two-dimensional shallow-fluid	model, for c	alcuiatin	g the wind field above
complex terrain. The optimum finite-differ	encing proce	dure empl	oyed for numerical
solutions of the algorithm is a Lax-Wendrof	f scheme usi	ng the gr	id points and two time
levels in combination with a nine-point low	-pass filter	•	•
A comprehensive computational program, u	sing an Isol	ated symm	etrical mountain, was
carried out to provide guidelines as to the	nature of t	wo-dimens	ional solutions of the
shallow-fluid equations for the wide variet	y of initial	conditio	ns <b>en</b> countered in the
atmosphere. The results showed that the fl			
major categories: Subcritical without hydr			
waves; critical with hydraulic jumps and wi			
hydraulic jumps but without wind-direction			
critical flows, initialization procedures d			
critical flows, care must be taken in the s			
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Comparisons of calculated wind field patterns with recent detailed observations of wind circulations above complex terrain show excellent qualitative agreement in the limited cases available for analysis. Additionally, the computer algorithm for the two-dimensional model, when applied to the terrain at White Sands Missile Range, gave results that were consistent with the limited observations available for two example situations. The computer program containing the two-dimensio I shallow-fluid model, written in Fortran V language and designed for use on a UNIVAC 1108 machine, is fully documented in the appendices to the report.

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2.	Shallow-Water Equations								
3.	Wind Flow								
4.	Complex Terrain								
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